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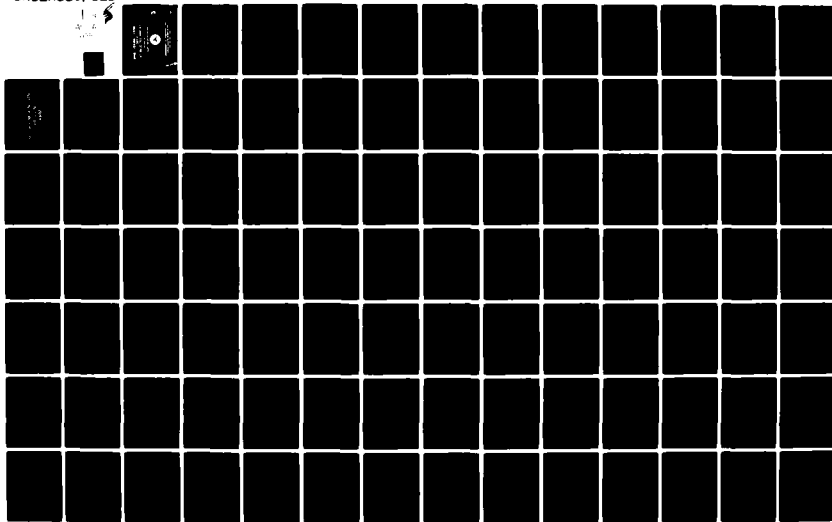
WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS. VOLUME V--ETC(U)

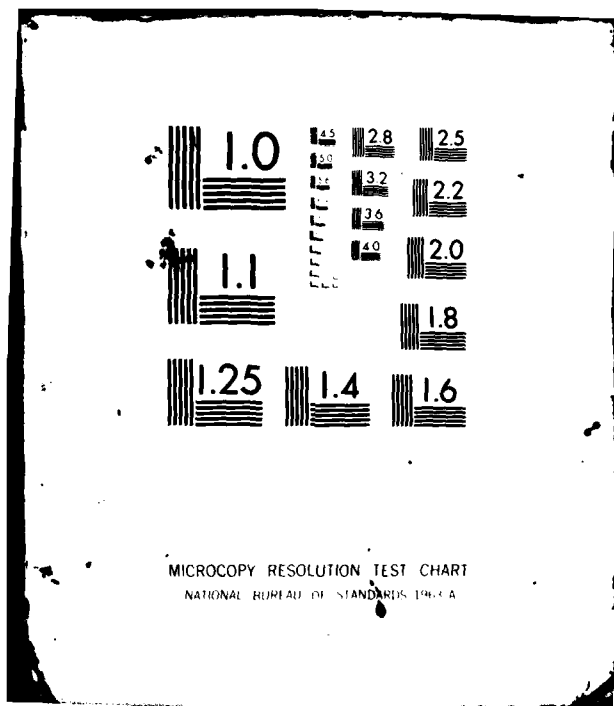
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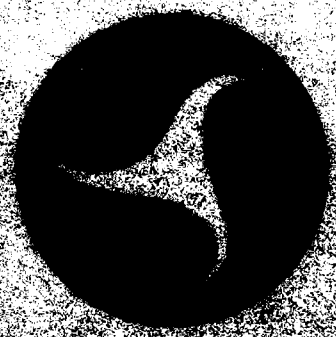
WORLD WIDE VISIBILITY

DATA

SELECTED AIRPORTS

VOLUME VII PART A

WORLD MOUNTAIN REGION



1961

DEPARTMENT OF TRANSPORTATION
BUREAU OF AIRPORTS

OFFICE OF AIRPORTS
WASHINGTON, D.C.



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16. Abstract This report provides summary tables and graphic wind roses depicting wind direction and speed under specific ceiling - visibility conditions at 283 airports. This data will be used in the application of FAA's establishment criteria for precision and non-precision approach and landing aids.					
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WIND-CEILING-VISIBILITY DATA AT SELECTED AIRPORTS

April 1981

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Accession For	
NETS	<input checked="" type="checkbox"/> GRAB
ERIC	<input type="checkbox"/> TAB
Unannounced	
Justification	
By	
Distribution/	
Availability Codes	
Avail and/or	
Special	
Dist	A

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FOREWORD

INTRODUCTION

Summary tables and graphs have been prepared to assist the FAA in the application of establishment criteria for precision and non-precision approach and landing aids. These tables and graphs depict wind direction and speed under specified ceiling and visibility conditions. This report has been prepared by the National Climatic Center for the FAA under Interagency Agreement No. DOT-FA79WAI-057.

Climatological information for selected airports is presented in 11 volumes:

- Volume 1 - New England Region (ANE)
- Volume 2 - Eastern Region (AEA)
- Volume 3 - Southern Region (ASO)
- Volume 4 - Great Lakes Region (AGL)
- Volume 5 - Central Region (ACE)
- Volume 6 - Southwest Region (ASW)
- Volume 7 - Rocky Mountain Region (ARM)
- Volume 8 - Northwest Region (ANW)
- Volume 9 - Western Region (AWE)
- Volume 10 - Alaskan and Pacific Regions (AAL and APC)
- Volume 11 - Visibility Time Series for Key Stations

Summary tables and graphs are presented in volumes 1-10. Graphical time series of visibility measurements for key stations throughout the United States are presented in volume 11 to give the reader some insight into the climate variability that can be expected.

ELEMENT CLASSIFICATION

Twelve tables for each station depict wind direction vs. wind speed distributions. Half the tables show daytime distributions for six ceiling-visibility classes, and half show nighttime distributions for the same six ceiling-visibility classes. A graphical depiction of the data in each table is also presented. An additional graph for each station depicts the combined day and night winds for all ceiling-visibility conditions.

Wind direction is grouped according to a 16-point compass (N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW) plus calm. The wind speed groups are 0-3, 4-12, 13-15, 16-18, 19-24, 25-31 and equal to or greater than 32 mph.

The ceiling-visibility criteria are defined as:

CLASS 1 = ceiling equal to or greater than 1,500 feet and visibility equal to or greater than 3 miles.

CLASS 2 = ceiling less than 1,500 feet and/or visibility less than 3 miles.

CLASS 3 = ceiling less than 1,500 feet and/or visibility less than 3 miles, but ceiling equal to or greater than 400 feet and visibility equal to or greater than 1 mile.

CLASS 4 = ceiling less than 400 feet and/or visibility less than 1 mile, but ceiling equal to or greater than 200 feet and visibility equal to or greater than 1/2 mile.

CLASS 5 = ceiling less than 200 feet and/or visibility less than 1/2 mile, but ceiling equal to or greater than 100 feet and visibility equal to or greater than 1/4 mile.

CLASS 6 = ceiling less than 100 feet and/or visibility less than 1/4 mile.

CLASS 7 = all ceiling and visibility conditions; sum of classes 1 and 2; also the sum of classes 1 and 3 through 6.

Time conditions are determined from the onset of civil twilight in the morning to the end of civil twilight in the evening. Civil twilight begins (ends) when the sun is six degrees below the horizon. It covers the somewhat indefinite period before sunrise and after sunset during which natural illumination usually remains sufficient for ordinary outdoor operations. For this report the morning (evening) times of beginning (ending) of civil twilight at a station are determined for the middle of a month. All data within this month are classified as either day or night according to these times.

DATA

The data used in the preparation of the climatological tables and graphs were extracted from the National Climatic Center's Tape Deck 1440 Hourly Surface Observations. The data contained in this deck have been digitized from the official observations recorded on station. From about 1948 through 1964 data were digitized for each hour in a day. From 1965 onward only every third hour's data were digitized. The tables and graphs in this report are based on eight observations per day (every third hour) for

of distributions in most cases. Therefore, no significant information has been lost by basing the climatologies on 8 observations per day. Exceptions are discussed in Volume II.

The tables and graphs are also available on microfiche, and the summarized data are available on magnetic tape. This report presents annual summaries, but monthly summaries can be generated on magnetic tape. Requests for microfiche copies of this report and for data on magnetic tape should be addressed to:

Director
National Climatic Center
Federal Building
Asheville, NC 28801

The requested microfiche copies and/or tapes will be provided at cost.

the entire period of record. This was done to eliminate the data bias problems that would have been created by trying to mix the 24 observations per day prior to 1965 with the 8 observations per day after 1964.

The effect on the climatology of not using all the available data was examined for representative key stations in each region. Monthly day and night distributions were prepared for all ceiling-visibility criteria and wind speed and direction groups using 24 observations per day. A data subset was created by extracting every third observation from the hourly data set, and similar frequency distributions were prepared. The Kolmogorov-Smirnov test was applied to evaluate the hypotheses that distributions using 24 observations per day are statistically the same as distributions using 8 observations per day. The results of this procedure indicate equality

TABLE LEGEND

A = number of day (night) observations in a given ceiling-visibility class, wind speed class and direction divided by the total number of day (night) observations in ceiling-visibility classes 1, 3-6, all wind speed classes and directions times 100.

B = number of day (night) observations in a given ceiling-visibility class, wind speed class and direction divided by the total number of day (night) observations in the given ceiling-visibility class and direction times 100.

C = number of day (night) observations of a given direction divided by the total number of day (night) observations in ceiling-visibility classes 1, 3-6 times 100.

D = number of day (night) observations of a given direction divided by the total number of day (night) observations in the given ceiling-visibility class times 100.

E = number of day (night) observations in a given wind speed class divided by the total number of day (night) observations in ceiling-visibility classes 1, 3-6 times 100.

F = number of day (night) observations in a given wind speed class divided by the total number of day (night) observations in the given ceiling-visibility class times 100.

G = number of day (night) observations in the given ceiling-visibility class divided by the total number of day (night) observations in ceiling-visibility classes 1, 3-6 times 100.

100 = summation of column D = summation of row F.

H = average wind speed for the given day (night) ceiling-visibility class and direction.

I = average wind speed for the given day (night) ceiling-visibility class.

J = overall period of record; see station list for actual years of record used.

Note: Ceiling-visibility class 2 is the sum of classes 3-6.

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: BOR BRIDGEPORT, CT

CLASS 1 / DAY

STATION NUMBER: 94702

NO. OBS.: 29909

PERIOD: 1949-1978

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL	C		D
	A	B	A	B	A	B	A	B	A	B	A	B	A	B				
N	.3	.3	2.6	3.1	1.1	1.4	.8	.9	.6	.8	.1	.1	.0	.0	5.5	6.6	12.6	
NNE	.2	.3	1.7	2.1	.6	.7	.3	.4	.2	.3	.1	.1	.0	.0	3.2	3.8	11.3	
NNE	.3	.4	2.2	2.6	.9	1.0	.6	.7	.3	.4	.0	.0	.0	.0	4.3	5.1	11.5	
ENE	.2	.2	1.5	1.8	.6	.7	.4	.5	.2	.3	.0	.1	.0	.0	3.0	3.5	11.7	
E	.2	.2	2.2	2.6	.8	1.0	.6	.7	.3	.4	.1	.1	.0	.0	4.2	5.0	11.9	
ESE	.1	.1	1.7	2.0	.4	.5	.3	.3	.2	.2	.0	.0	.0	.0	2.7	3.2	10.9	
SE	.2	.2	1.5	1.7	.4	.5	.1	.1	.1	.1	.0	.0	.0	.0	2.2	2.6	9.8	
SSE	.1	.1	1.7	2.0	.4	.5	.1	.1	.0	.0	.0	.0	.0	.0	2.3	2.8	9.8	
S	.2	.2	2.9	3.5	1.2	1.5	.8	.8	.3	.4	.0	.0	.0	.0	5.0	5.9	11.4	
SSW	.1	.1	2.5	3.0	1.2	1.4	.9	1.1	.6	.7	.1	.1	.0	.0	5.3	6.3	12.8	
SW	.2	.3	4.6	5.4	2.0	2.4	1.3	1.6	.6	.7	.1	.1	.0	.0	8.8	10.5	12.1	
WSW	.2	.2	3.8	4.5	1.8	2.2	1.3	1.5	.9	1.0	.2	.2	.0	.0	8.1	9.6	13.1	
W	.1	.2	2.9	3.5	1.3	1.6	1.1	1.4	1.1	1.3	.4	.5	.1	.1	7.1	8.5	14.4	
WNW	.2	.2	2.1	2.5	1.3	1.6	1.3	1.6	1.6	1.9	.7	.9	.2	.2	7.5	8.8	16.3	
NW	.2	.3	2.1	2.5	1.3	1.6	1.6	1.8	1.6	1.9	.7	.9	.1	.2	7.7	9.2	16.0	
NNW	.2	.2	2.1	2.5	1.2	1.4	1.1	1.3	1.3	1.5	.4	.5	.1	.1	6.3	7.5	15.1	
CALM	1.1	1.3													1.1	1.3		
TOTAL	4.1	4.8	38.2	45.3	16.4	19.5	12.3	14.6	9.8	11.7	3.0	3.5	.6	.7	84.3	100	13.0	

SAMPLE

(C) (D)

(A) (B)

(E) (F)

(G) (100)

(I)

(H)

(J)

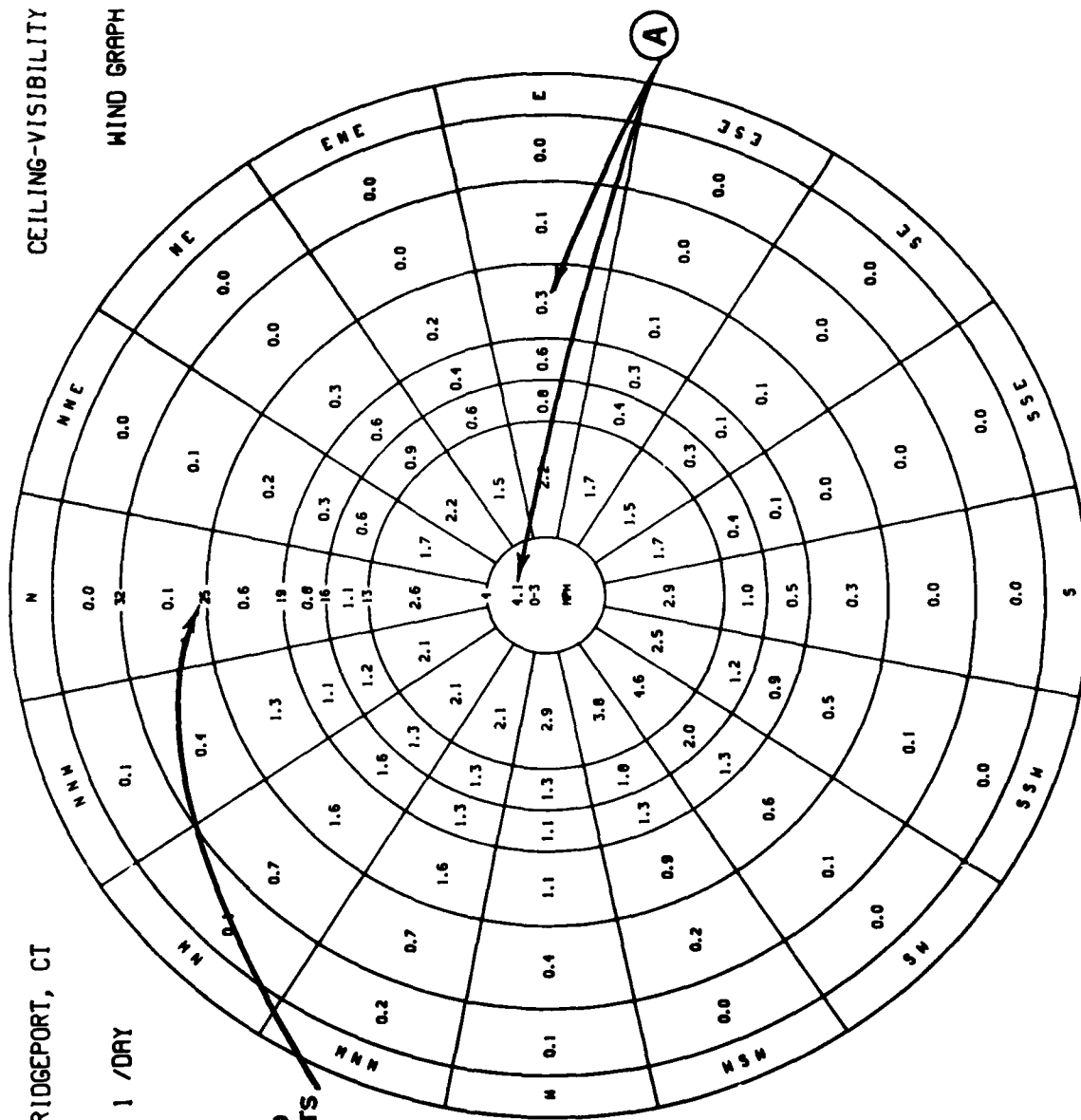
CEILING-VISIBILITY

WIND GRAPH

BOU BRIDGEPORT, CT

CLASS 1 /DAY

WIND SPEED
CLASS LIMITS
IN MPH



A—NUMBER OF DAY (NIGHT) OBSERVATIONS IN A GIVEN CEILING—VISIBILITY CLASS, WIND SPEED CLASS AND DIRECTION DIVIDED BY THE TOTAL NUMBER OF DAY (NIGHT) OBSERVATIONS IN CEILING—VISIBILITY CLASSES 1, 3–6, ALL WIND SPEED CLASSES AND DIRECTIONS TIMES 100.

STATION LIST

ST CITY	AP ID	STATION NUMBER	PERIOD OF RECORD
CO			
Colorado Springs	COS	93037	1949-1963 1965-1978
Denver	DEN	23062	1948-1978
Eagle	EGE	23063	1948-1978
Grand Junction	GJT	23066	1948-1978
Pueblo	PUB	93058	1955-1977
MT			
Billings	BIL	24033	1948-1978
Cut Bank	CTB	24137	1948-1978
Glasgow	CGW	94008	1969-1978
Great Falls	GTF	24143	1948-1978
Havre	HVR	94012	1967-1973
Helena	HLN	24144	1948-1978
Kalispell	FCA	24146	1950-1952 1965-1978
Lewistown	LWT	24036	1948-1978
Miles City	MLS	24037	1948-1978
Missoula	MSO	24153	1948-1978

ND				
Bismarck	BIS	24011	1948-1978	
Fargo	FAR	14914	1948-1978	
Grand Forks	CFK	14916	1949-1958	1974-1978
Minot	MOT	24013	1949-1978	
Williston	ISN	94014	1967-1978	
SD				
Aberdeen	ABR	14929	1948-1954	1965-1977*
Huron	HON	14936	1948-1978	
Pierre	PIR	24025	1948-1978	
Rapid City	RAP	24090	1951-1978	
Sioux Falls	FSD	14944	1948-1978	
UT				
Bryce Canyon	BCE	23159	1949-1975*	
Cedar City	CDC	93129	1949-1978	
Salt Lake City	SLC	24127	1948-1978	
WY				
Casper	CPR	24089	1951-1978	
Cheyenne	CYS	24018	1948-1978	
Lander	LND	24021	1959-1978	
Rock Springs	RKS	24027	1948-1978	
Sheridan	SHR	24029	1948-1978	

* Note: Period of record does not end in 1978.

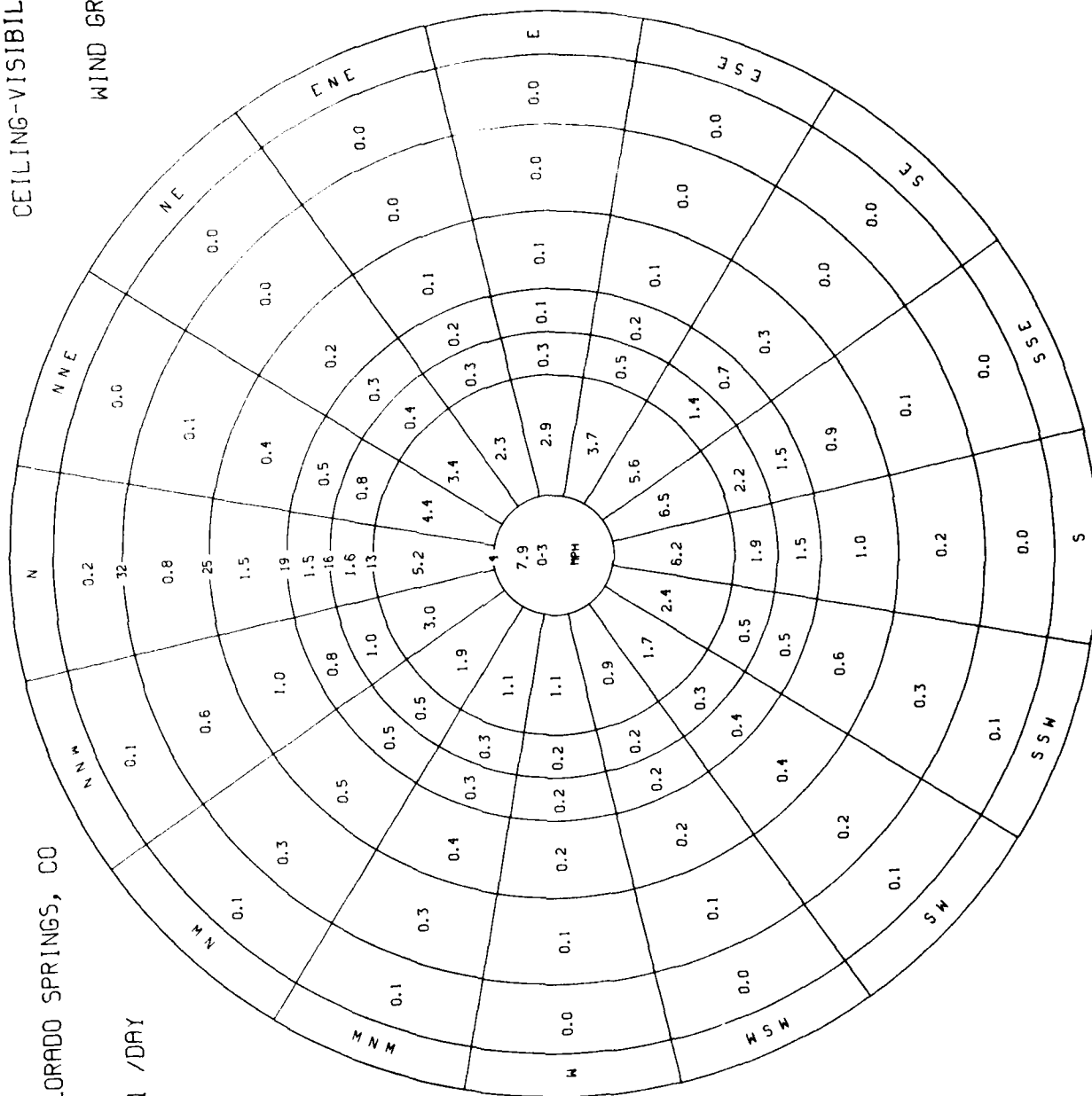
ROCKY MOUNTAIN REGION (ARM)

CEILING-VISIBILITY

WIND GRAPH

COS COLORADO SPRINGS, CO

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: LOS COLORADO SPRINGS, CO

CLASS: / DAY

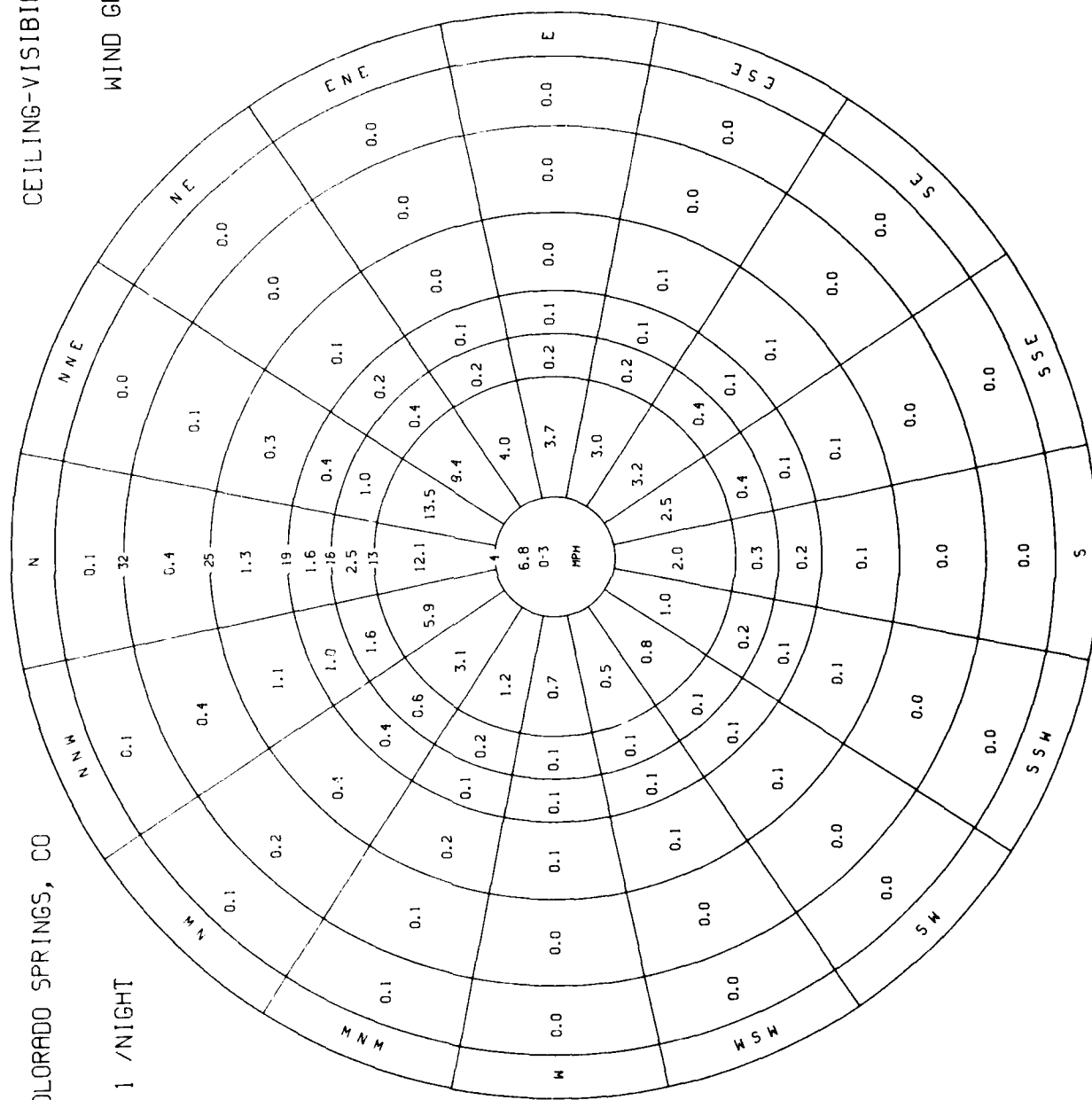
NO. OBS.: 43977

STATION NUMBER: 93037

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.4	.4	5.2	5.5	1.5	1.7	1.5	1.6	1.5	1.6	.8	.8	.2	.2	11.0	11.7	13.7
NNE	.3	.3	4.4	4.7	.8	.9	.5	.5	.4	.5	.1	.1	.0	.0	6.5	6.9	10.5
NE	.3	.3	3.4	3.7	.4	.5	.3	.3	.2	.2	.0	.0	.0	.0	4.7	5.0	9.3
ENE	.3	.3	2.3	2.5	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	3.2	3.4	8.9
E	.4	.4	2.9	3.1	.3	.3	.1	.1	.1	.1	.0	.0	.0	.0	3.8	4.1	8.3
ESE	.3	.4	3.7	4.0	.5	.5	.2	.2	.1	.1	.0	.0	.0	.0	4.9	5.2	9.0
SE	.5	.5	5.6	5.9	1.4	1.5	.7	.8	.3	.4	.0	.1	.0	.0	8.5	9.1	10.3
SSE	.4	.4	6.5	7.0	2.2	2.4	1.5	1.6	.9	1.0	.1	.1	.0	.0	11.8	12.5	11.7
S	.5	.5	6.2	6.6	1.9	2.0	1.5	1.6	1.0	1.1	.2	.2	.0	.0	11.2	12.0	11.7
SSW	.3	.3	2.4	2.6	.5	.6	.5	.5	.6	.6	.3	.3	.1	.1	4.6	4.9	12.5
SW	.3	.3	1.7	1.8	.3	.4	.4	.4	.4	.4	.2	.2	.1	.1	3.3	3.5	12.2
WSW	.2	.2	.9	1.0	.2	.2	.2	.2	.2	.2	.1	.1	.0	.0	1.9	2.0	11.6
W	.2	.2	1.1	1.1	.2	.2	.2	.2	.2	.2	.1	.2	.0	.0	2.1	2.2	11.7
WNW	.2	.2	1.1	1.2	.3	.3	.3	.3	.4	.4	.3	.3	.1	.1	2.8	2.9	14.5
NW	.3	.3	1.9	2.0	.5	.5	.5	.5	.5	.6	.3	.3	.1	.1	4.0	4.3	13.1
NNW	.2	.2	3.0	3.2	1.0	1.0	.8	.9	1.0	1.1	.6	.6	.1	.1	6.7	7.2	14.2
CALM	2.9	3.1													2.9	3.1	
TOTAL	7.9	8.4	52.5	55.8	12.5	13.3	9.3	9.9	7.9	8.4	3.2	3.4	.7	.8	94.0	100	11.2

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: 003 COLORADO SPRINGS, CO

PERIOD: 1949-1978

CLASS 1 / NIGHT

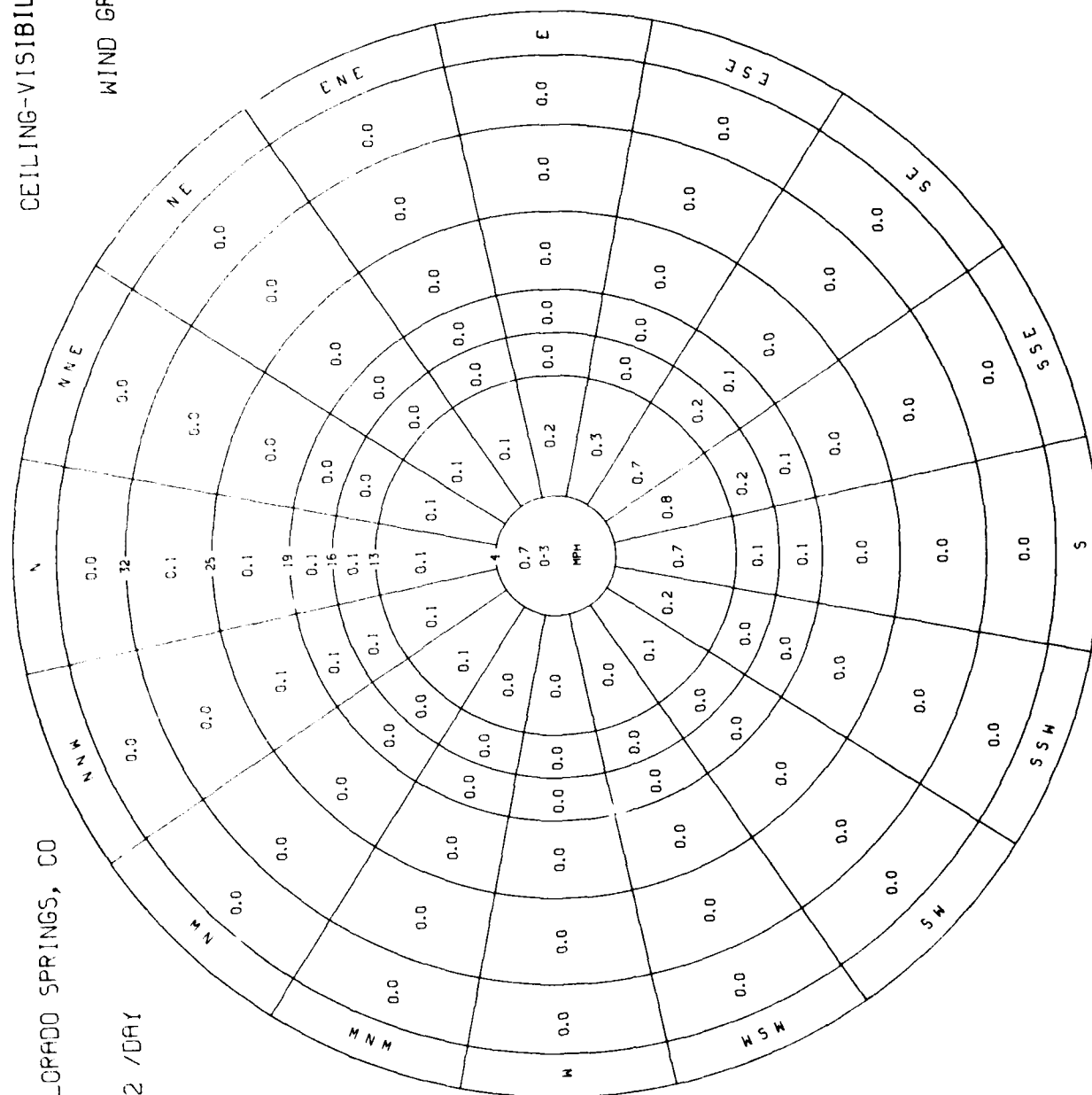
STATION NUMBER: 93037

NO. OBS.: 35132

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.5	.5	12.1	13.1	2.5	2.7	1.6	1.7	1.3	1.4	.4	.4	.1	.1	8.5	20.0	11.3
NNE	.4	.5	13.5	14.5	1.0	1.1	.4	.5	.3	.3	.1	.1	.2	.2	5.8	17.0	9.0
NE	.5	.5	9.4	10.1	.4	.5	.2	.2	.1	.1	.2	.3	.2	.2	0.6	11.5	8.1
ENE	.4	.4	4.0	4.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	4.8	5.2	7.6
E	.4	.4	3.7	4.0	.2	.2	.1	.1	.0	.0	.2	.2	.2	.2	4.5	4.8	7.6
ESE	.3	.3	3.0	3.3	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	3.7	4.0	8.1
SE	.3	.4	3.2	3.5	.4	.4	.1	.1	.1	.1	.0	.0	.0	.0	4.1	4.4	8.5
SSE	.3	.3	2.5	2.7	.4	.4	.1	.2	.1	.1	.0	.0	.0	.0	3.4	3.7	9.0
S	.3	.3	2.0	2.1	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	2.9	3.1	9.1
SSW	.1	.1	1.0	1.0	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	1.5	1.7	10.1
SW	.1	.2	.8	.8	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	1.3	1.4	10.4
WSW	.1	.1	.5	.6	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	1.0	1.0	10.4
W	.1	.1	.7	.8	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	1.1	1.2	9.9
WNW	.2	.2	1.2	1.3	.2	.2	.1	.1	.2	.2	.1	.1	.1	.1	2.0	2.1	11.6
NW	.3	.3	3.1	3.3	.6	.6	.4	.5	.4	.4	.2	.2	.1	.1	5.0	5.4	11.5
NNW	.3	.3	5.9	6.4	1.6	1.7	1.0	1.1	1.1	1.2	.4	.4	.1	.1	10.4	11.3	12.3
CALM	2.2	2.4													2.2	2.4	
TOTAL	6.8	7.3	66.6	71.9	8.5	9.2	4.9	5.3	4.1	4.4	1.4	1.5	.3	.3	92.6	100	9.6

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: COS COLORADO SPRINGS, CO

CLASS 2 / DAY

NO. OBS.: 2817

STATION NUMBER: 93037

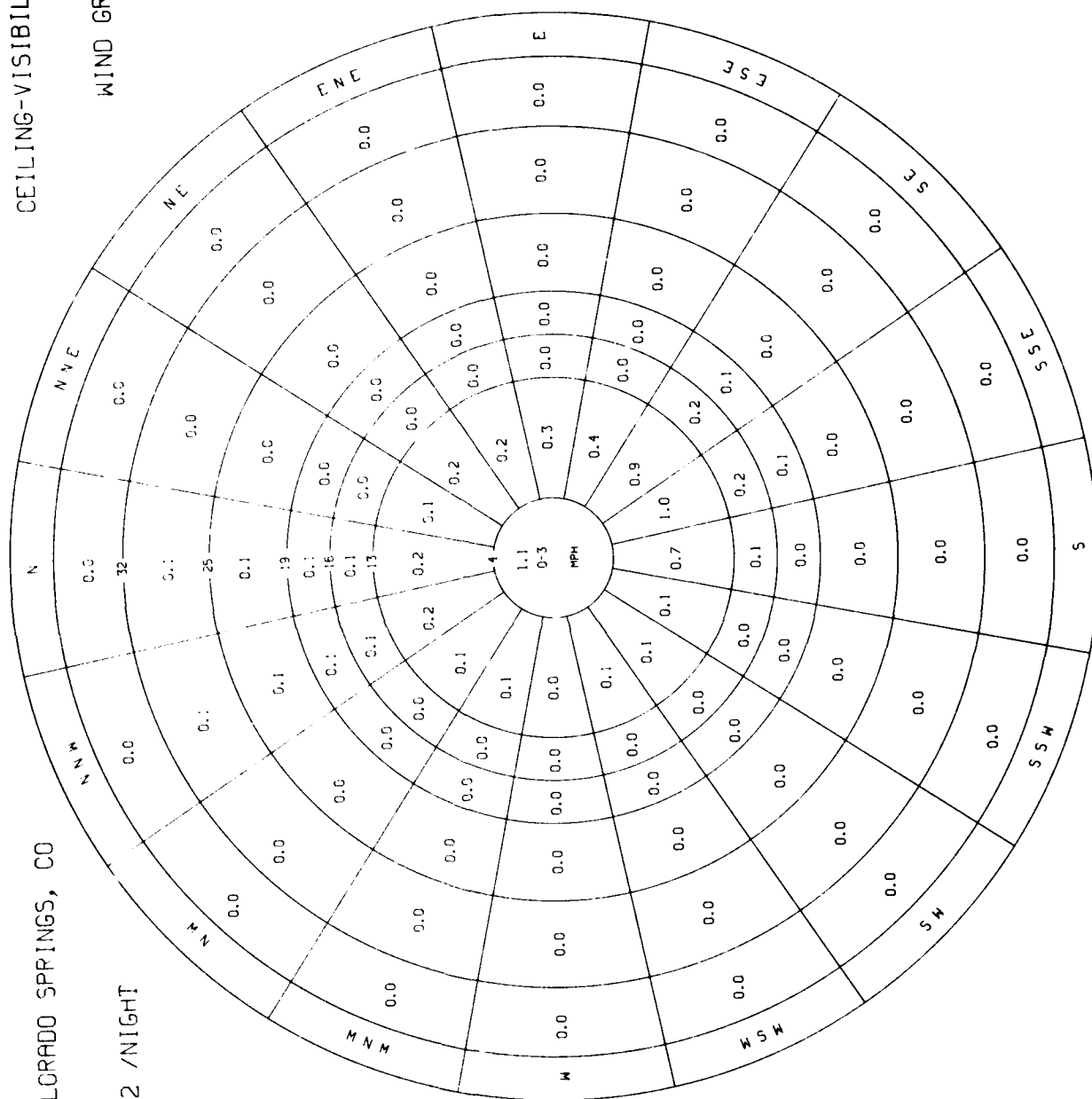
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.2	.1	1.9	.1	1.0	.1	.9	.1	1.2	.1	.9	.0	.6	.4	6.7	17.8
NNE	.0	.2	.1	1.0	.0	.3	.0	.2	.0	.5	.0	.1	.0	.0	.1	2.3	12.3
NE	.0	.0	.1	1.5	.0	.2	.0	.4	.0	.1	.0	.0	.0	.0	.1	2.3	10.9
ENE	.0	.3	.1	2.4	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.2	3.1	8.2
E	.1	.9	.2	3.3	.0	.6	.0	.2	.0	.0	.0	.0	.0	.0	.3	5.0	8.2
ESE	.0	.4	.3	5.3	.0	.7	.0	.3	.0	.2	.0	.0	.0	.0	.4	6.9	9.1
SE	.0	.5	.7	11.4	.2	2.9	.1	1.2	.0	.4	.0	.1	.0	.0	1.0	16.5	10.2
SSE	.0	.6	.8	13.3	.2	3.9	.1	1.6	.0	.7	.0	.0	.0	.0	1.2	20.2	10.6
S	.1	.9	.7	11.4	.1	1.8	.1	1.2	.0	.1	.0	.0	.0	.0	.9	15.4	9.2
SSW	.0	.7	.2	2.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.5	6.9
SW	.0	.4	.1	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.7	6.2
WSW	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.0	4.3
W	.0	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	4.7
WNW	.0	.3	.0	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1	1.3	10.6
NW	.0	.3	.1	1.0	.0	.2	.0	.2	.0	.1	.0	.1	.0	.0	.1	2.0	11.0
NNW	.0	.4	.1	1.6	.1	.9	.1	.9	.1	1.8	.0	.7	.0	.6	.4	6.9	17.8
CALM	.3	4.4													.3	4.4	
TOTAL	.7	11.1	3.6	59.9	.8	13.2	.4	7.2	.3	5.2	.1	1.9	.1	1.4	6.0	100	10.3

CCS COLORADO SPRINGS, CO

WIND GRAPH

CLASS 2 /NIGHT

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: COS COLORADO SPRINGS, CO

PERIOD: 1949-1978

CLASS 2 / NIGHT

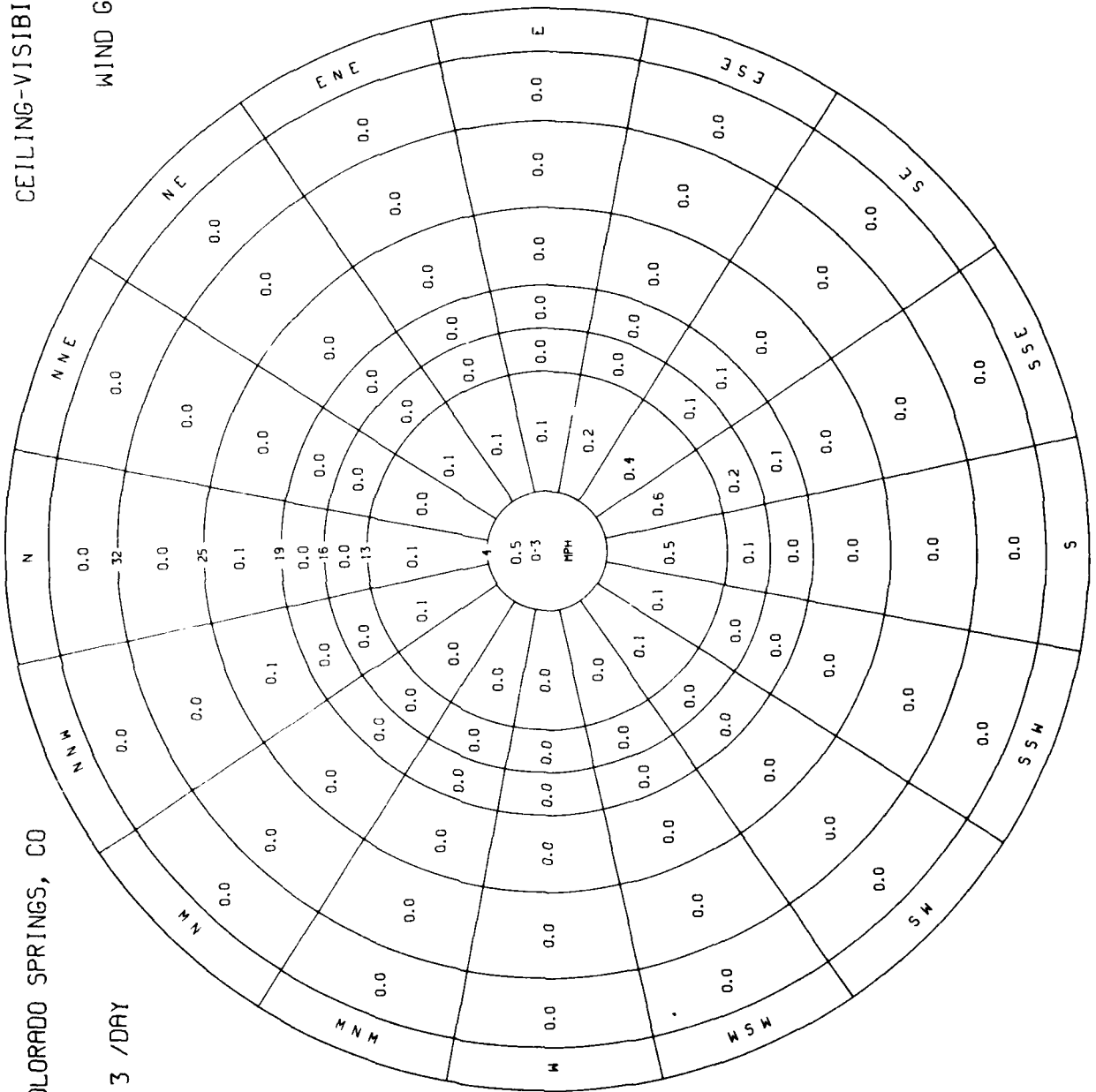
STATION NUMBER: 93037

NO. OBS.: 2794

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
															C		D
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.5	.2	3.3	.1	.8	.1	.7	.1	1.0	.1	.8	.0	.3	.5	7.4	14.4
NNE	.0	.3	.1	2.0	.0	.5	.0	.1	.0	.2	.0	.1	.0	.0	.2	3.1	9.3
NE	.0	.4	.2	2.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.3	3.5	7.5
ENE	.1	.7	.2	2.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	3.4	6.5
E	.0	.5	.3	4.7	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.4	5.8	7.9
ESE	.0	.6	.4	5.8	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.5	7.1	8.0
SE	.1	.9	.9	12.2	.2	2.3	.1	.9	.0	.3	.0	.0	.0	.0	1.2	16.5	9.5
SSE	.1	1.3	1.0	14.0	.2	2.8	.1	1.0	.0	.3	.0	.0	.0	.0	1.4	19.4	9.4
S	.1	1.1	.7	9.3	.1	.9	.0	.3	.0	.1	.0	.0	.0	.0	.9	11.8	8.0
SSW	.0	.6	.1	2.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.7	6.5
SW	.0	.3	.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.1	6.1
WSW	.0	.2	.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	5.4
W	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	4.3
WNW	.0	.5	.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.6	4.9
NW	.0	.6	.1	1.7	.0	.2	.0	.3	.0	.2	.0	.1	.0	.0	.2	3.1	9.4
NNW	.0	.3	.2	2.5	.1	.8	.1	.7	.1	.9	.1	.7	.0	.3	.5	6.2	14.9
CALM	.4	5.7													.4	5.7	
TOTAL	1.1	14.8	4.9	66.0	.7	9.6	.3	4.3	.2	3.1	.1	1.7	.0	.6	7.4	100	8.8

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: COS COLORADO SPRINGS, CO

PERIOD: 1949-1978

CLASS 3 / DAY

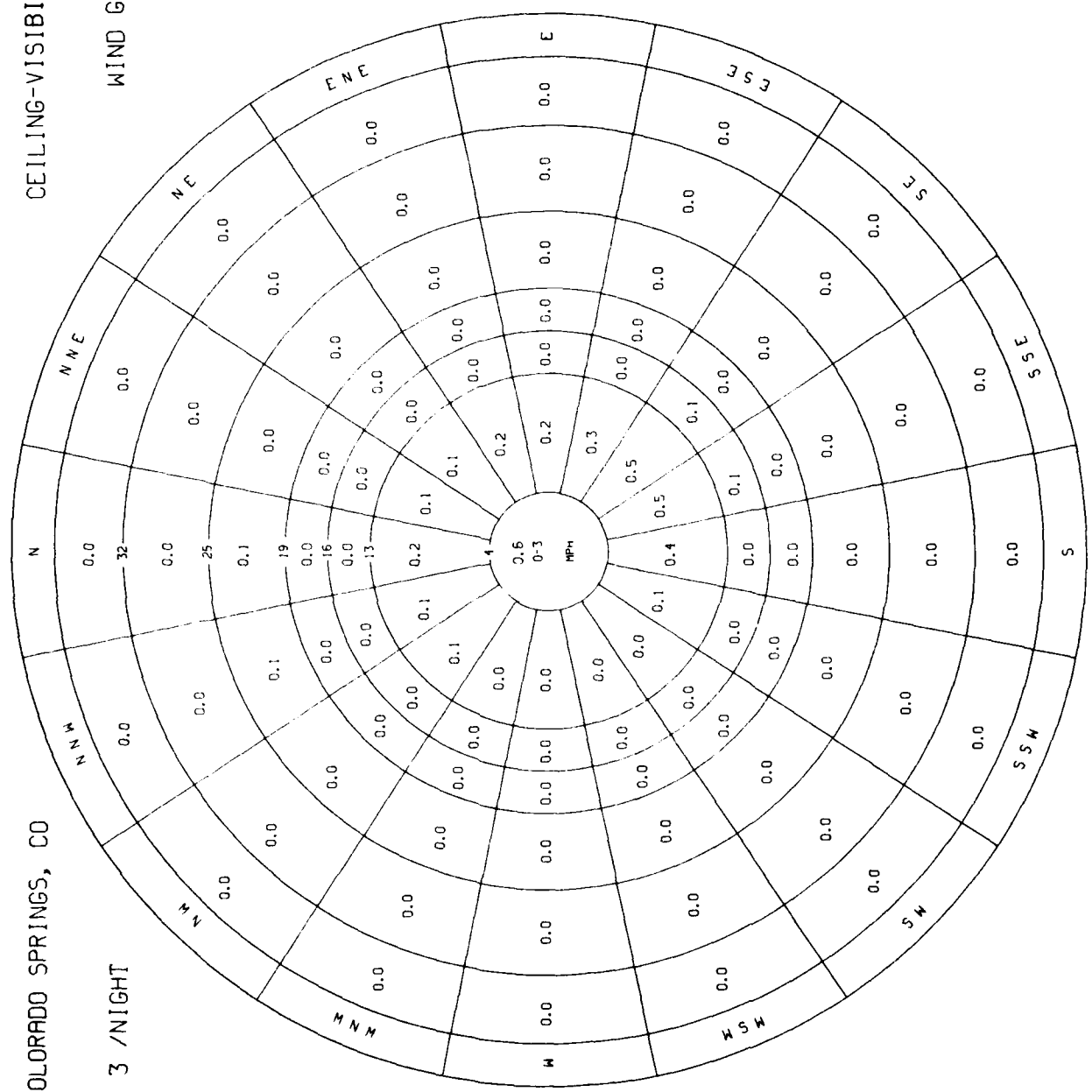
STATION NUMBER: 93037

NO. OBS.: 1961

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.2	.1	1.8	.0	.9	.0	1.1	.1	1.4	.0	.9	.0	.4	.3	6.7	17.4
NNE	.0	.3	.0	1.1	.0	.3	.0	.3	.0	.5	.0	.0	.0	.0	.1	2.3	11.7
NE	.0	.1	.1	1.8	.0	.2	.0	.4	.0	.2	.0	.0	.0	.0	.1	2.5	10.7
ENE	.0	.4	.1	2.4	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.1	3.3	8.5
E	.0	1.0	.1	3.4	.0	.5	.0	.2	.0	.1	.0	.0	.0	.1	.2	5.3	8.2
ESE	.0	.4	.2	5.9	.0	.5	.0	.3	.0	.2	.0	.0	.0	.1	.3	7.2	8.9
SE	.0	.4	.4	10.5	.1	2.5	.1	1.2	.0	.4	.0	.2	.0	.0	.6	15.2	10.3
SSE	.0	.5	.6	13.2	.2	3.8	.1	1.5	.0	.8	.0	.0	.0	.0	.8	19.8	10.7
S	.0	.8	.5	11.8	.1	1.8	.0	1.1	.0	.2	.0	.0	.0	.0	.7	15.6	9.3
SSW	.0	.7	.1	2.9	.0	.2	.0	.0	.0	.1	.0	.0	.0	.0	.2	3.9	7.1
SW	.0	.3	.1	1.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.8	6.5
WSW	.0	.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	4.1
W	.0	.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	4.6
WNW	.0	.2	.0	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	.1	1.3	13.0
NW	.0	.3	.0	1.0	.0	.3	.0	.3	.0	.2	.0	.2	.0	.0	.1	2.2	11.5
NNW	.0	.5	.1	1.6	.0	1.0	.0	.8	.1	2.0	.0	.5	.0	.5	.3	6.8	17.2
CALM	.2	4.3													.2	4.3	
TOTAL	.5	10.9	2.5	60.6	.5	12.4	.3	7.2	.2	5.8	.1	1.8	.1	1.2	4.2	100	10.3

CEILING-VISIBILITY
WIND GRAPH

COS COLORADO SPRINGS, CO
CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: COS COLORADO SPRINGS, CO

PERIOD: 1949-1978

CLASS 3 / NIGHT

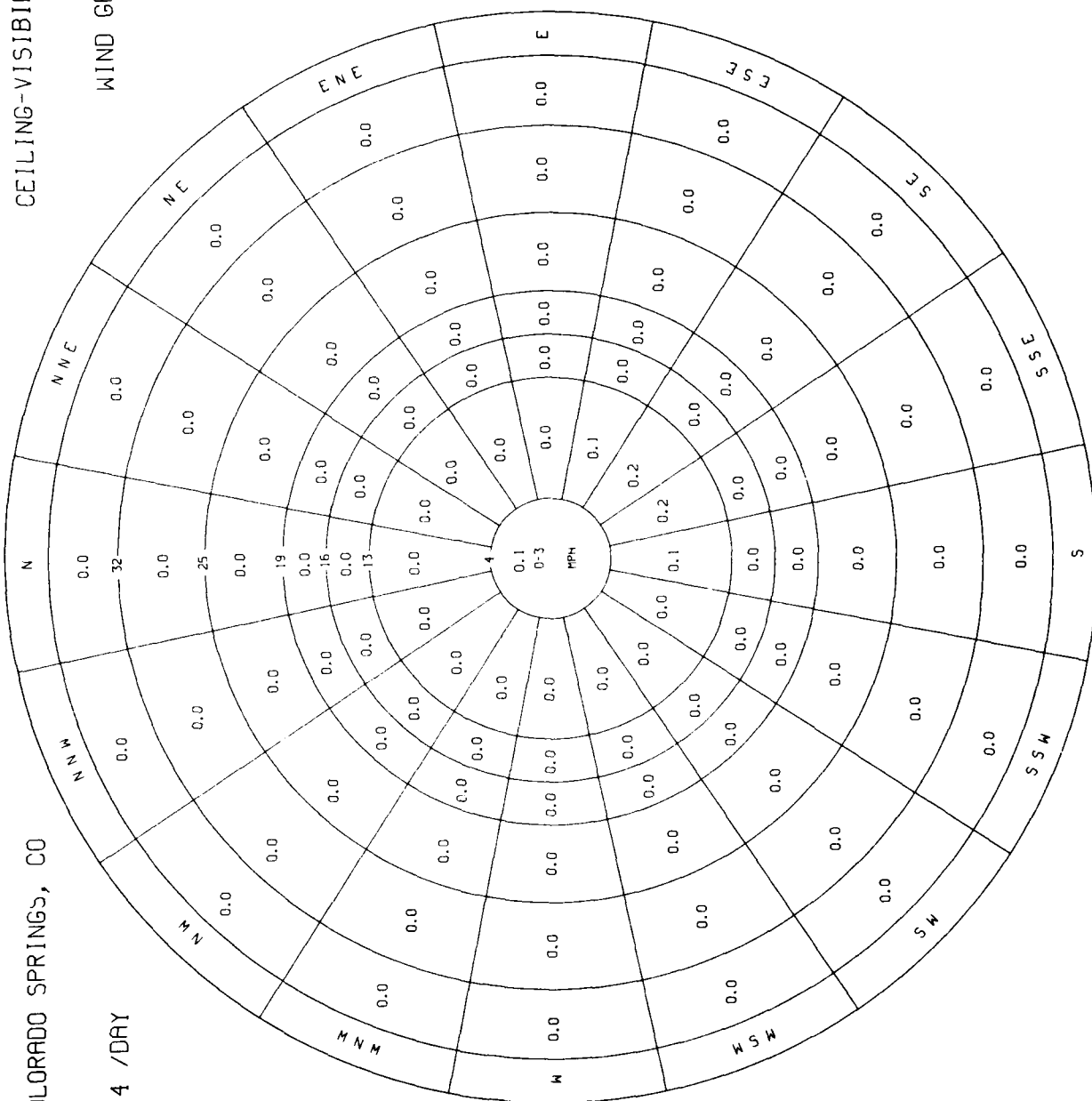
STATION NUMBER: 93037

NO. OBS.: 1653

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.4	.2	4.5	.0	1.1	.0	1.0	.1	1.3	.0	1.0	.0	.2	.4	9.4	13.9
NNE	.0	.3	.1	2.2	.0	.7	.0	.1	.0	.2	.0	.0	.0	.0	.2	3.5	9.5
NE	.0	.3	.1	3.2	.0	.5	.0	.1	.0	.0	.0	.0	.0	.0	.2	4.1	7.9
ENE	.0	.8	.2	3.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	4.4	6.7
E	.0	.7	.2	5.0	.0	.4	.0	.2	.0	.1	.0	.0	.0	.0	.3	6.3	8.1
ESE	.0	.5	.3	5.7	.0	.5	.0	.2	.0	.1	.0	.0	.0	.0	.3	7.0	7.8
SE	.0	.8	.5	10.9	.1	2.1	.0	.7	.0	.2	.0	.0	.0	.0	.6	14.8	9.3
SSE	.0	1.0	.5	12.4	.1	2.1	.0	.8	.0	.2	.0	.0	.0	.0	.7	16.5	9.2
S	.0	.8	.4	8.2	.0	.8	.0	.2	.0	.1	.0	.0	.0	.0	.4	10.2	8.1
SSW	.0	.4	.1	1.9	.0	.2	.0	.0	.0	.1	.0	.0	.0	.0	.1	2.5	7.1
SW	.0	.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1.0	6.8
WSW	.0	.2	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	5.3
W	.0	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	4.6
WNW	.0	.5	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.5	4.8
NW	.0	.6	.1	2.1	.0	.4	.0	.4	.0	.2	.0	.1	.0	.0	.2	3.8	10.0
NNW	.0	.4	.1	3.1	.0	1.1	.0	1.0	.1	1.3	.0	.8	.0	.4	.4	8.2	15.5
CALM	.2	5.3													.2	5.3	
TOTAL	.6	13.7	2.9	65.4	.4	9.9	.2	4.6	.2	3.8	.1	2.0	.0	.6	4.4	100	9.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: COS COLORADO SPRINGS, CO

CLASS 4 / DAY

NO. OBS.: 552

STATION NUMBER: 93037

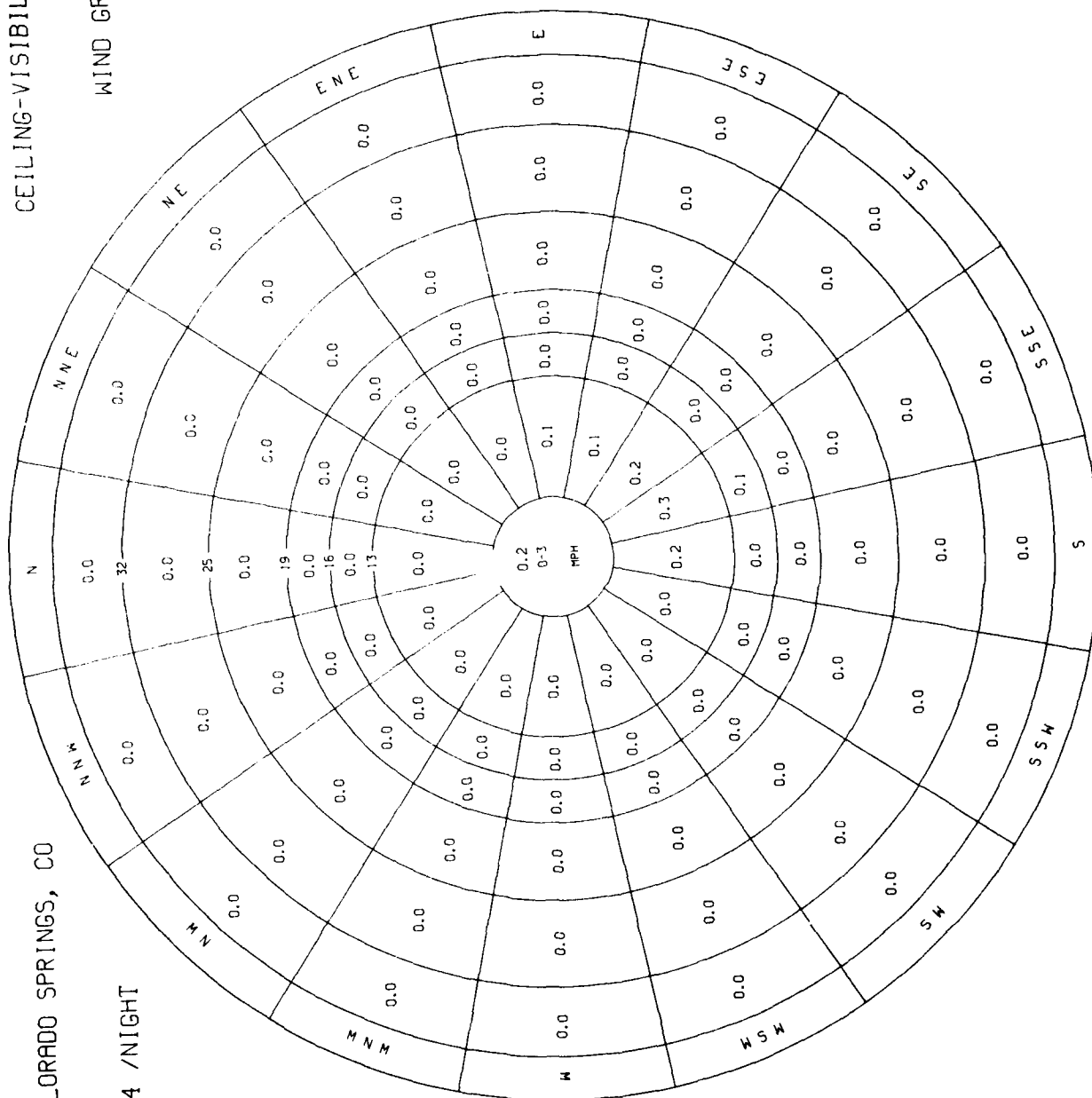
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	2.2	.0	1.4	.0	.4	.0	1.3	.0	.9	.0	.7	.1 6.9
NNE	.0	.4	.0	1.1	.0	.4	.0	.4	.0	.5	.0	.2	.0	.0	.0 2.9
NE	.0	.0	.0	1.4	.0	.5	.0	.4	.0	.0	.0	.0	.0	.0	.0 2.4
ENE	.0	.2	.0	2.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.1
E	.0	.4	.0	2.7	.0	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.1 4.3
ESE	.0	.4	.1	4.3	.0	.9	.0	.2	.0	.2	.0	.0	.0	.0	.1 6.0
SE	.0	.7	.2	13.4	.0	4.0	.0	1.3	.0	.4	.0	.0	.0	.0	.2 19.7
SSE	.0	.7	.2	13.8	.0	4.0	.0	1.1	.0	.5	.0	.0	.0	.0	.2 20.1
S	.0	.5	.1	9.8	.0	1.8	.0	1.6	.0	.0	.0	.0	.0	.0	.2 13.8
SSW	.0	.4	.0	1.3	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0 2.0
SW	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.4
WSW	.0	.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.6
W	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .7
WNW	.0	.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .9
NW	.0	.2	.0	1.1	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0 1.6
NNW	.0	.2	.0	1.6	.0	1.1	.0	.1	.0	1.3	.0	1.3	.0	.7	.1 8.2
CAIM	.1	4.3													.1 4.3
TOTAL	.1	10.1	.7	58.2	.2	15.9	.1	7.8	.0	4.2	.0	2.4	.0	1.4	1.2 100
															10.5

CEILING-VISIBILITY

WIND GRAPH

COS COLORADO SPRINGS, CO

CLASS 4 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: COS COLORADO SPRINGS, CO

CLASS 4 / NIGHT

NO. OBS.: 605

STATION NUMBER: 93037

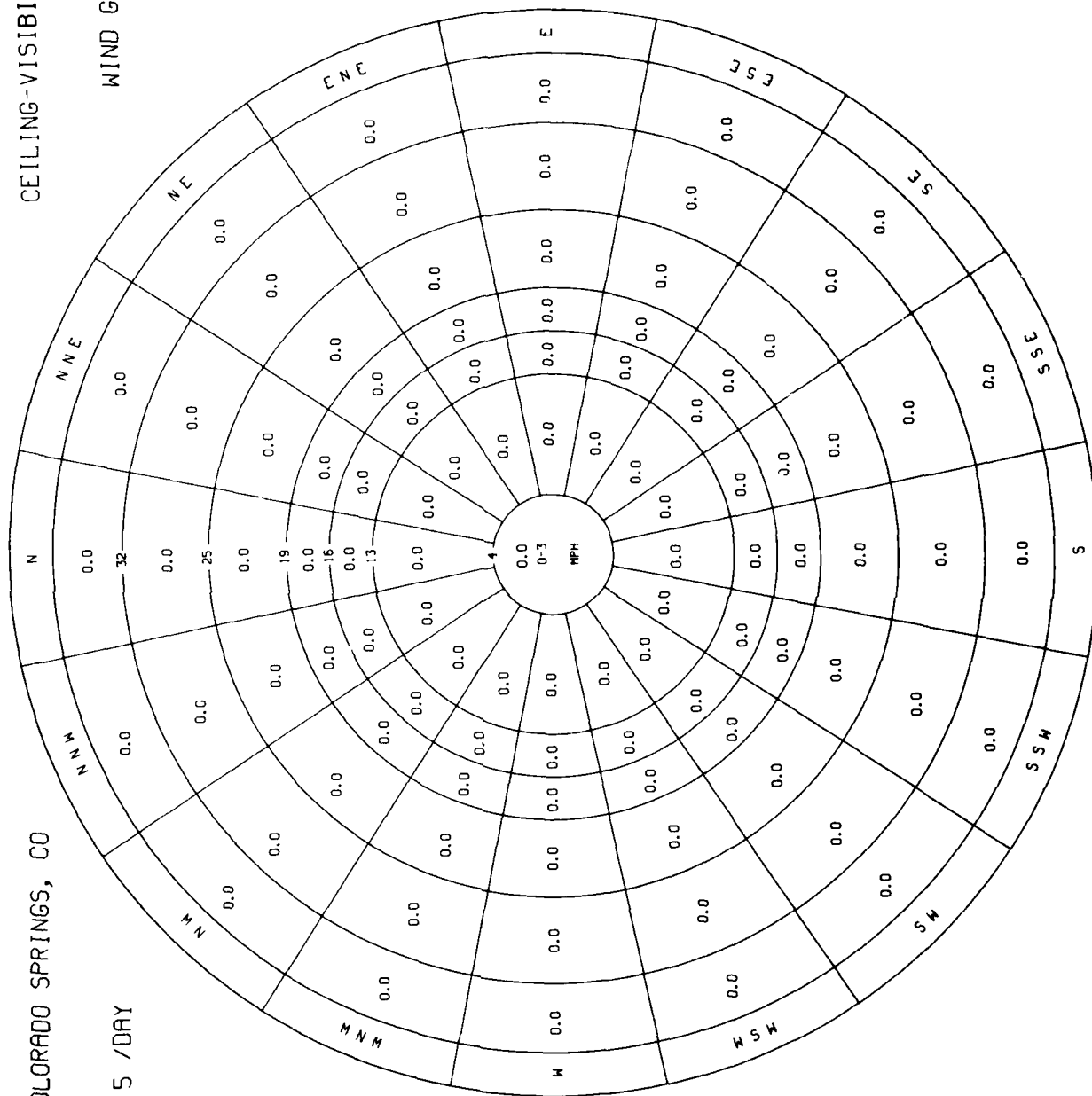
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.0	1.7	.0	.7	.0	.3	.0	1.0	.0	.8	.0	.2	.1 5.0 15.7
NNE	.0	.2	.0	2.3	.0	.3	.0	.0	.0	.2	.0	.2	.0	.0	.1 3.1 9.3
NE	.0	.3	.0	2.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1 3.1 7.7
ENE	.0	.7	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.5 5.9
E	.0	.2	.1	4.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1 5.0 7.5
ESE	.0	.0	.1	5.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.1 5.3 8.5
SE	.0	.8	.2	15.4	.0	2.5	.0	1.0	.0	.3	.0	.0	.0	.0	.3 20.0 9.3
SSE	.0	2.0	.3	17.0	.1	3.8	.0	1.0	.0	.3	.0	.0	.0	.0	.4 24.1 9.4
S	.0	1.3	.2	10.4	.0	.3	.0	.8	.0	.0	.0	.0	.0	.0	.2 12.9 8.1
SSW	.0	1.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 3.3 5.3
SW	.0	.5	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2 5.6
WSW	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .7 5.7
W	.0	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.0 4.0
WNW	.0	.2	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7 5.6
NW	.0	.3	.0	1.3	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.0 2.1 8.6
NNW	.0	.0	.0	2.1	.0	.5	.0	.5	.0	.7	.0	.5	.0	.0	.1 4.3 13.6
CALM	.1	4.8													.1 4.8
TOTAL	.2	13.2	1.1	69.3	.1	9.1	.1	4.1	.0	2.6	.0	1.5	.0	.2	1.6 100 8.7

CEILING-VISIBILITY

WIND GRAPH

COS COLORADO SPRINGS, CO

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: COS COLORADO SPRINGS, CO

PERIOD: 1949-1978

CLASS 5 / DAY

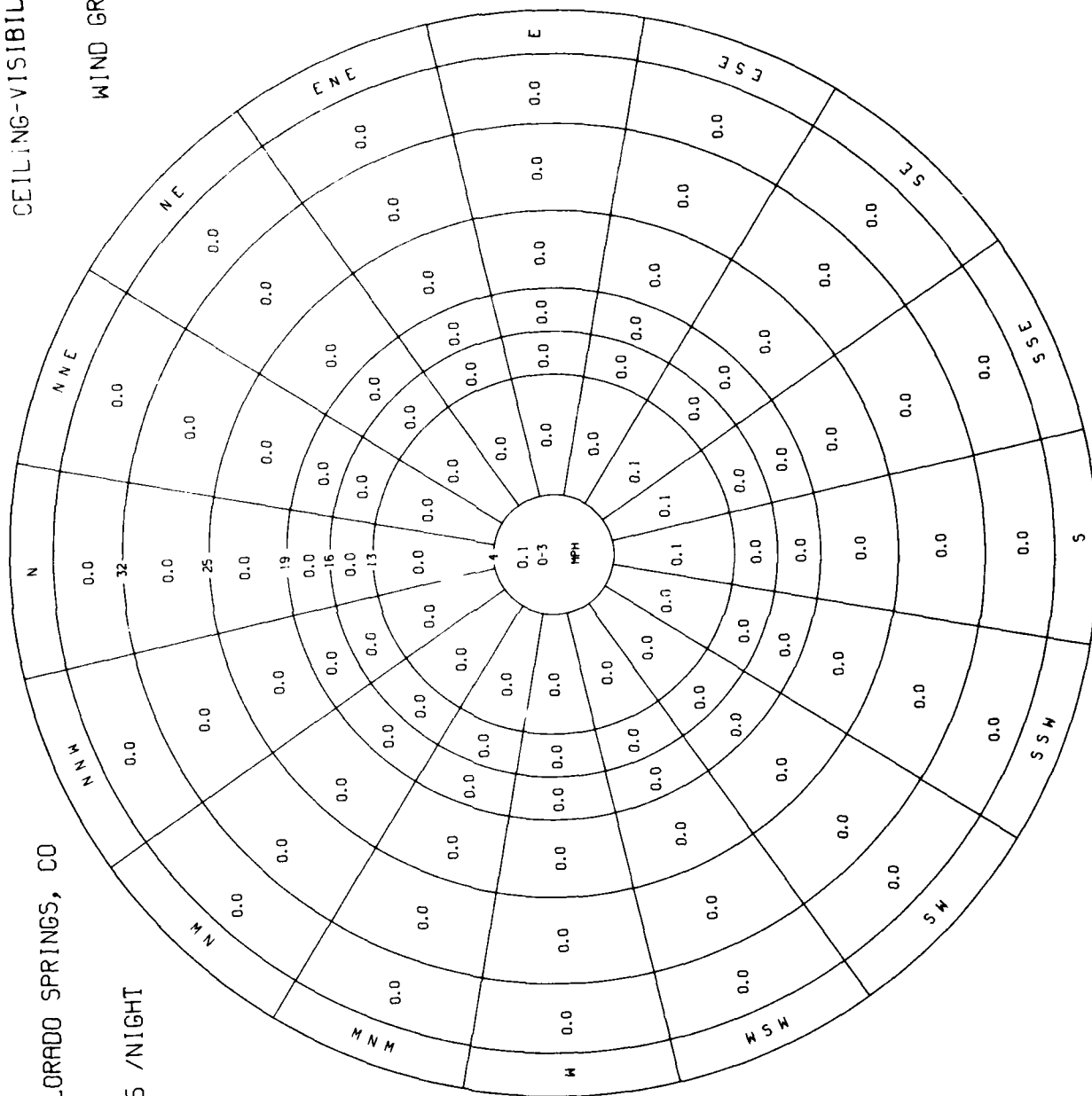
STATION NUMBER: 93037

NO. OBS.: 155

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.6	.0	3.2	.0	.6	.0	1.3	.0	.6	.0	.6	.0	1.3	.0	8.4	16.7
NNE	.0	.0	.0	.6	.0	.6	.0	.0	.0	.6	.0	.6	.0	.0	.0	2.6	17.7
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	6.0
E	.0	.6	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	6.7
ESE	.0	.0	.0	3.9	.0	1.9	.0	.6	.0	.0	.0	.0	.0	.0	.0	6.5	10.7
SE	.0	.6	.0	11.0	.0	5.2	.0	.0	.0	.6	.0	.6	.0	.0	.1	18.1	10.8
SSE	.0	.0	.0	12.3	.0	2.6	.0	1.3	.0	.0	.0	.0	.0	.0	.1	16.1	9.6
S	.0	2.6	.0	11.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	14.8	7.8
SSW	.0	.6	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	6.0
SW	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	5.5
WSW	.0	1.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	4.0
W	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	5.0
WNW	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	4.0
NW	.0	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	1.3	12.0
NNW	.0	.6	.0	1.9	.0	.0	.0	.0	.0	1.9	.0	1.3	.0	1.9	.0	7.7	21.4
CALM	.0	7.1													.0	7.1	
TOTAL	.0	14.8	.2	58.7	.0	11.6	.0	4.5	.0	3.9	.0	3.2	.0	3.2	.3	100	10.0

CEILING-VISIBILITY

WIND GRAPH



COS COLORADO SPRINGS, CO

CLASS 5 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: COS COLORADO SPRINGS, CO

PERIOD: 1949-1978

CLASS 5 / NIGHT

STATION NUMBER: 93037

NO. OBS.: 234

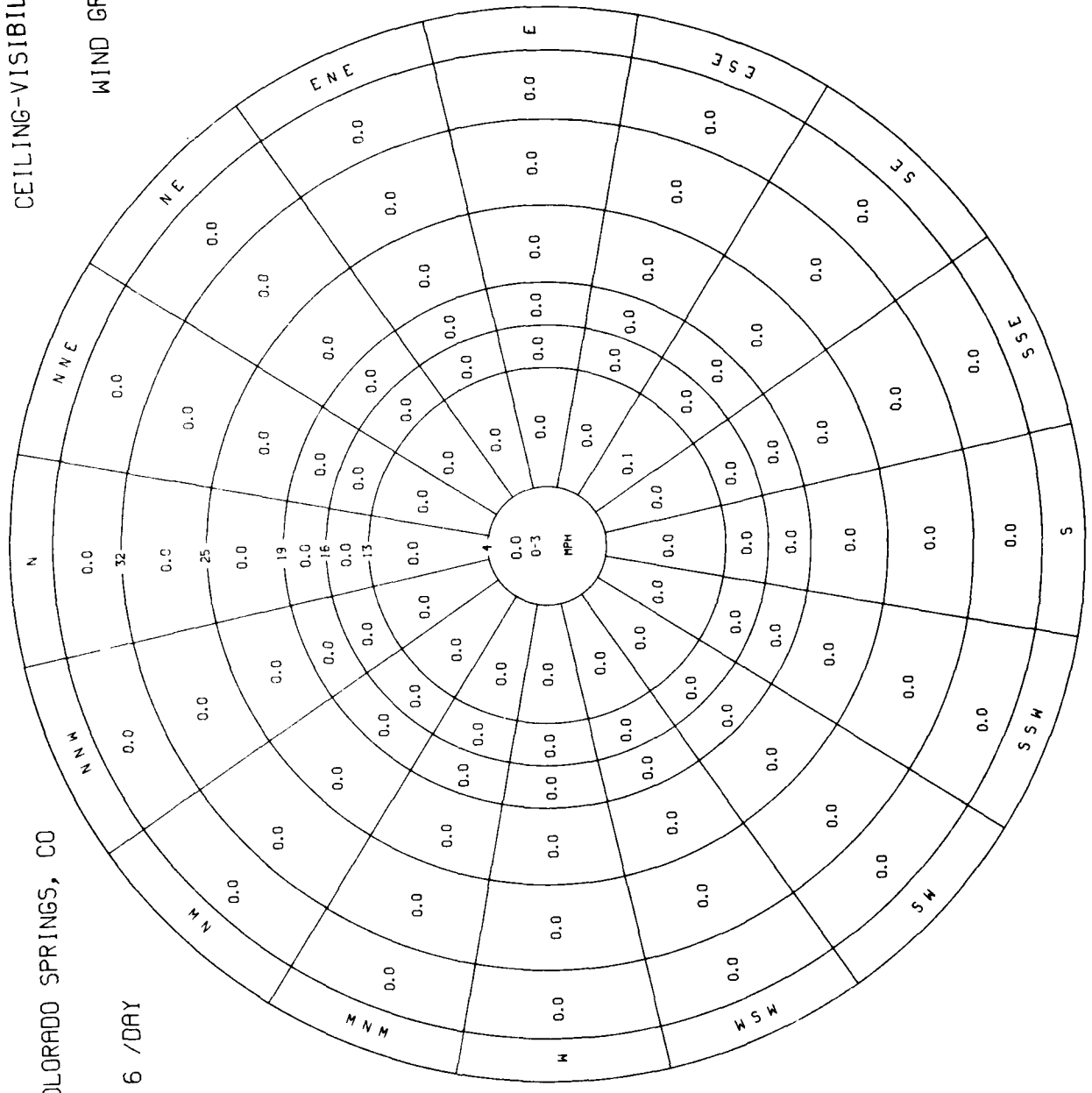
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.9	.0	1.3	.0	.0	.0	.4	.0	.0	.0	.4	.0	.4	.0 3.4
NNE	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.3
NNE	.0	1.7	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.4
ENE	.0	.4	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.0
E	.0	.4	.0	3.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0 3.8
ESE	.0	1.7	.0	6.8	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.1 9.8
SE	.0	1.3	.1	11.1	.0	3.0	.0	1.3	.0	.4	.0	.0	.0	.0	.1 17.1
SSE	.0	.9	.1	15.0	.0	4.3	.0	1.7	.0	.4	.0	.0	.0	.0	.1 22.2
S	.0	1.7	.1	12.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.1 16.2
SSW	.0	.9	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.0
SW	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
W	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .4
WNW	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .9
NW	.0	.4	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.1
NNW	.0	.9	.0	1.3	.0	.0	.0	.0	.0	.4	.0	.9	.0	.0	.0 3.4
CALM	.1	8.1													.1 8.1
TOTAL	.1	19.7	.4	62.4	.1	11.1	.0	3.4	.0	1.7	.0	1.3	.0	.4	.6 100
															8.2

CEILING-VISIBILITY

WIND GRAPH

COS COLORADO SPRINGS, CO

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: COS COLORADO SPRINGS, CO

PERIOD: 1949-1978

CLASS 6 / DAY

STATION NUMBER: 93037

NO. OBS.: 149

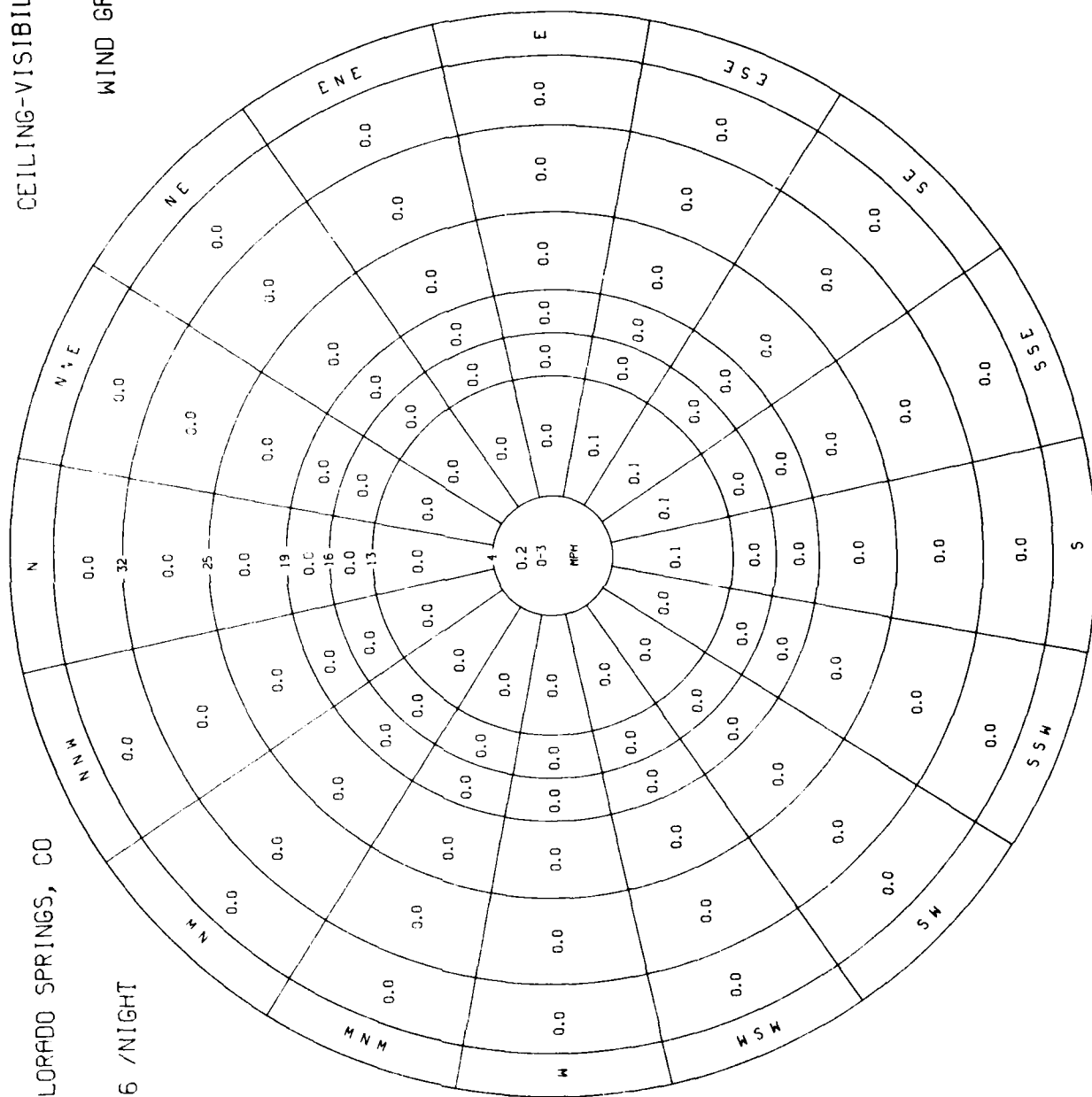
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.7	.0	1.3	.0	.7	.0	.0	.0	.0	.0	.7	.0	2.0	.0 5.4
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
NENE	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0 .7
ENE	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.3
E	.0	.7	.0	3.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.7
ESE	.0	.0	.0	3.4	.0	.7	.0	.7	.0	.7	.0	.0	.0	.0	.0 5.4
SE	.0	.7	.1	16.8	.0	2.0	.0	1.3	.0	.0	.0	.0	.0	.0	.1 20.8
SSE	.0	2.0	.0	15.4	.0	6.0	.0	4.0	.0	1.3	.0	.0	.0	.0	.1 28.9
S	.0	1.3	.0	13.4	.0	4.0	.0	1.3	.0	.0	.0	.0	.0	.0	.1 20.1
SSW	.0	2.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.4
SW	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.3
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
WNW	.0	1.3	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.7
NW	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .7
NNW	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0 1.3
CALM	.0	3.4													.0 3.4
TOTAL	.0	13.4	.2	58.4	.0	14.8	.0	8.1	.0	2.7	.0	.7	.0	2.0	.3 10.2

CEILING-VISIBILITY

WIND GRAPH

COS COLORADO SPRINGS, CO

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: COS COLORADO SPRINGS, CO

CLASS 6 / NIGHT

NO. OBS.: 302

STATION NUMBER: 93037

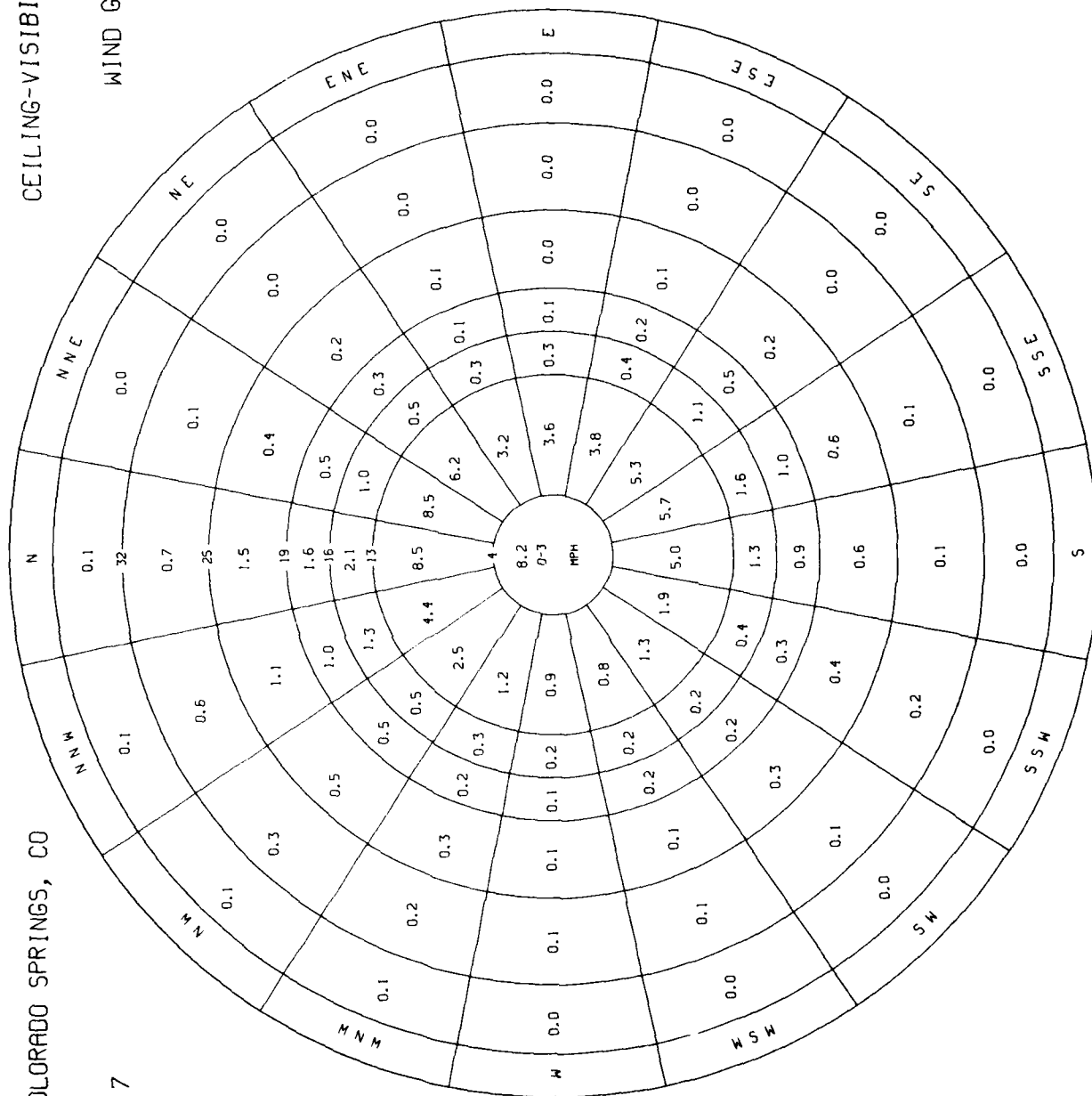
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
															C	D	
N	.0	1.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	4.3	17.1
NNE	.0	.7	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	2.0	8.8
NE	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	5.4
ENE	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	4.0
E	.0	.7	.0	5.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	6.0	7.5
ESE	.0	1.0	.1	7.3	.0	.3	.0	.7	.0	.0	.0	.0	.0	.0	.1	9.3	8.4
SE	.0	.7	.1	13.6	.0	2.3	.0	1.3	.0	.3	.0	.0	.0	.0	.1	18.2	10.1
SSE	.0	1.7	.1	16.2	.0	3.6	.0	1.7	.0	.3	.0	.0	.0	.0	.2	23.5	9.5
S	.0	2.0	.1	11.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	14.9	8.0
SSW	.0	.3	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	5.8
SW	.0	.7	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	5.0
WSW	.0	.3	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	5.0
W	.0	1.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	3.5
WNW	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	4.4
NW	.0	1.3	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	2.3	8.1
NNW	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	1.3	10.7
CALM	.1	7.3													.1	7.3	
TOTAL	.2	20.2	.5	65.2	.1	7.6	.0	3.6	.0	1.0	.0	.7	.0	1.7	.8	100	8.2

CEILING-VISIBILITY

WIND GRAPH

COS COLORADO SPRINGS, CO

CLASS 7

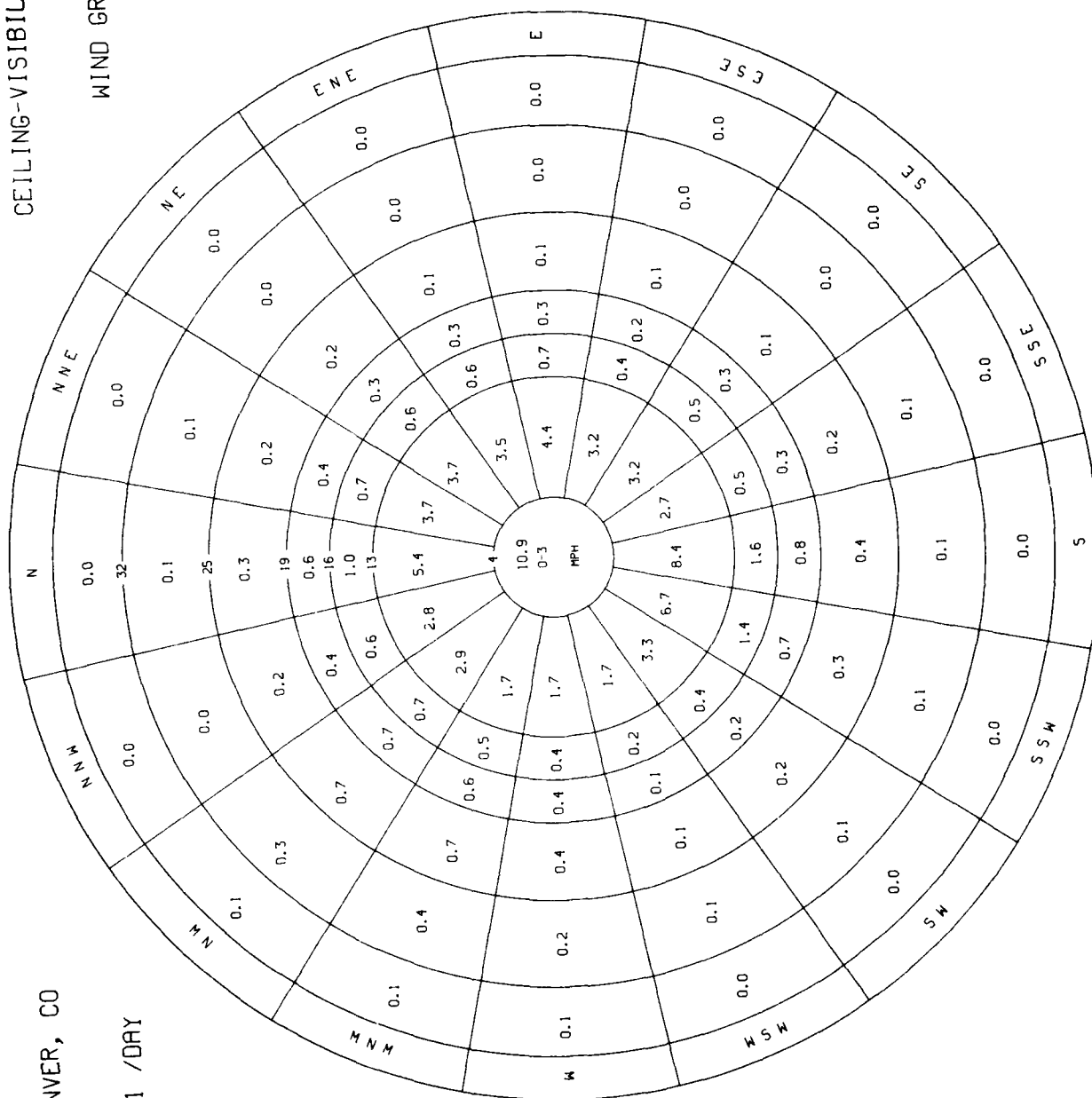


CEILING-VISIBILITY

WIND GRAPH

DEN DENVER, CO

CLASS 1 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DENVER, CO

PERIOD: 1948-1978

CLASS 1 / DAY

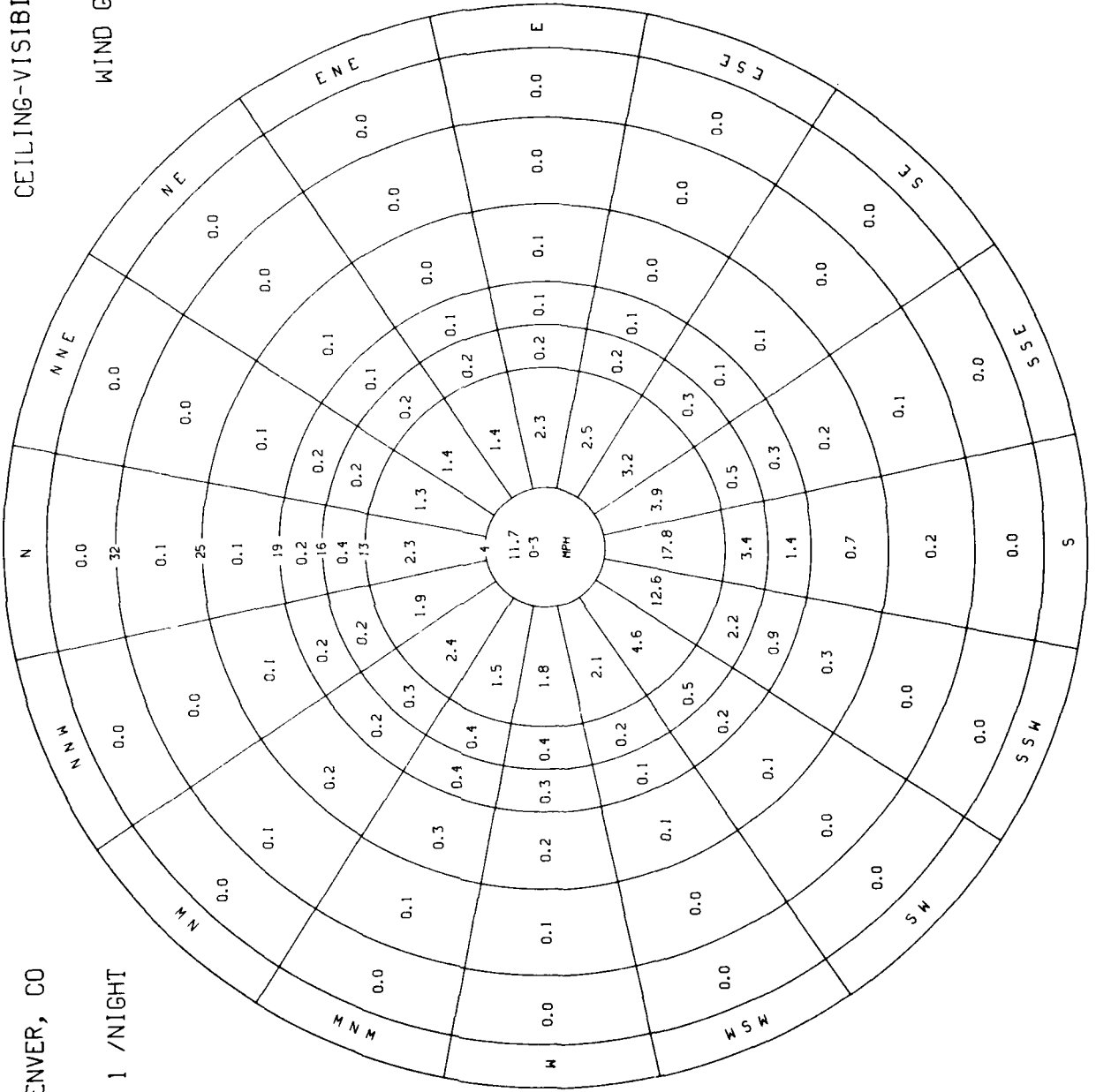
STATION NUMBER: 23062

NO. OBS.: 46980

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.6	.6	5.4	5.7	1.0	1.1	.6	.6	.3	.4	.1	.1	.0	.0	8.0 8.5
NNE	.4	.4	3.7	4.0	.7	.7	.4	.4	.2	.3	.1	.1	.0	.0	5.5 5.8
N	.5	.6	3.7	3.9	.6	.7	.3	.4	.2	.2	.0	.0	.0	.0	5.4 5.7
ENE	.4	.5	3.5	3.7	.6	.6	.3	.3	.1	.2	.0	.0	.0	.0	4.9 5.2
E	.6	.6	4.4	4.7	.7	.7	.3	.3	.1	.2	.0	.0	.0	.0	6.2 6.6
ESE	.4	.5	3.2	3.4	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	4.4 4.7
SE	.6	.7	3.2	3.4	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	4.8 5.1
SSE	.4	.4	2.7	2.9	.5	.5	.3	.3	.2	.2	.1	.1	.0	.0	4.1 4.4
S	.9	1.0	8.4	9.0	1.6	1.8	.8	.8	.4	.4	.1	.1	.0	.0	12.3 13.1
SSW	.5	.6	6.7	7.2	1.4	1.5	.7	.8	.3	.3	.1	.1	.0	.0	9.8 10.4
SW	.6	.6	3.3	3.6	.4	.4	.2	.2	.2	.2	.1	.1	.0	.0	4.8 5.1
WSW	.3	.4	1.7	1.8	.2	.2	.1	.2	.1	.1	.1	.1	.0	.0	2.6 2.8
W	.4	.4	1.7	1.8	.4	.4	.4	.4	.4	.4	.2	.2	.1	.1	3.4 3.6
WNW	.3	.3	1.7	1.8	.5	.5	.6	.7	.7	.8	.4	.4	.1	.1	4.4 4.7
NW	.5	.5	2.9	3.0	.7	.8	.7	.8	.7	.7	.3	.3	.1	.1	5.8 6.2
NNW	.4	.4	2.8	3.0	.6	.7	.4	.5	.2	.2	.0	.0	.0	.0	4.5 4.8
CALM	3.0	3.2													3.0 3.2
TOTAL	10.9	11.6	59.0	62.9	11.0	11.7	6.5	6.9	4.5	4.8	1.6	1.7	.4	.5	93.9 100
															9.7

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DEN DENVER, CO

PERIOD: 1948-1978

CLASS 1 / NIGHT

STATION NUMBER: 23062

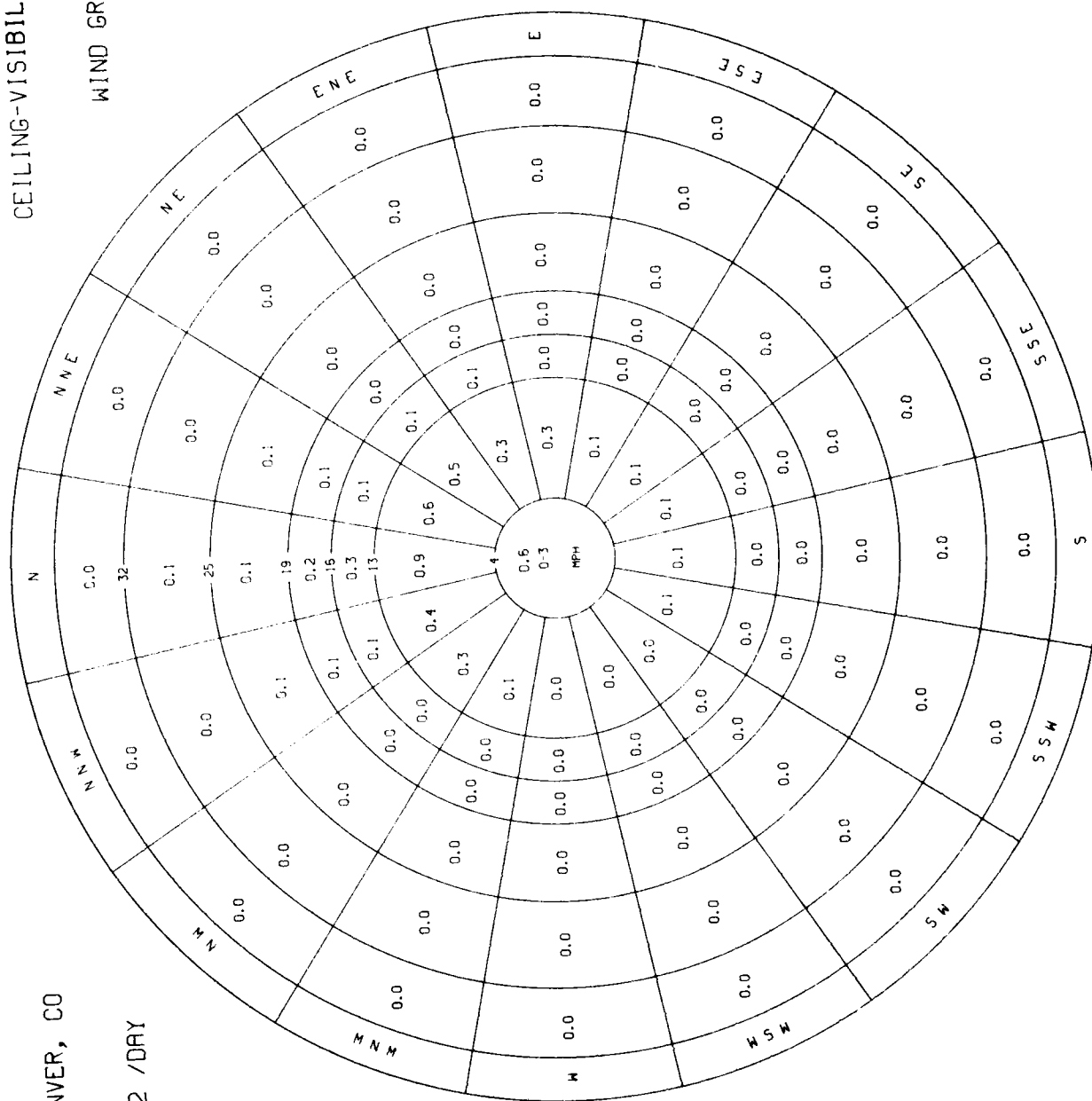
NO. OBS.: 37789

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.3	.4	2.3	2.4	.4	.4	.2	.3	.1	.1	.1	.1	.0	.0	3.4	3.7	9.5
NNE	.3	.3	1.3	1.4	.2	.3	.2	.2	.1	.1	.0	.0	.0	.0	2.1	2.3	9.8
NE	.3	.3	1.4	1.5	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	2.1	2.3	8.8
ENE	.3	.4	1.4	1.5	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.2	2.3	8.3
E	.4	.5	2.3	2.4	.2	.3	.1	.1	.1	.1	.0	.0	.0	.0	3.1	3.4	8.0
ESE	.4	.5	2.5	2.7	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.3	3.5	7.7
SE	.5	.6	3.2	3.4	.3	.3	.1	.1	.1	.1	.0	.0	.0	.0	4.2	4.5	8.0
SSE	.5	.6	3.9	4.1	.5	.5	.3	.3	.2	.2	.1	.1	.0	.0	5.5	5.9	9.1
S	1.3	1.3	17.8	19.1	3.4	3.6	1.4	1.5	.7	.8	.2	.2	.0	.0	24.8	26.6	9.8
SSW	.9	1.0	12.6	13.5	2.2	2.4	.9	1.0	.3	.3	.0	.0	.0	.0	17.0	18.2	9.3
SW	.7	.7	4.6	5.0	.5	.6	.2	.2	.1	.1	.0	.0	.0	.0	6.1	6.6	8.1
WSW	.4	.5	2.1	2.3	.2	.3	.1	.1	.1	.1	.0	.0	.0	.0	3.0	3.2	8.0
W	.3	.4	1.8	1.9	.4	.5	.3	.3	.2	.2	.1	.1	.0	.0	3.2	3.5	10.7
WNW	.3	.3	1.5	1.7	.4	.4	.4	.4	.3	.3	.1	.1	.0	.0	3.0	3.3	11.6
NW	.3	.3	2.4	2.5	.3	.4	.2	.3	.2	.2	.1	.1	.0	.0	3.5	3.8	9.6
NNW	.3	.3	1.9	2.0	.2	.2	.2	.2	.1	.1	.0	.0	.0	.0	2.6	2.8	8.7
CALM	4.0	4.2													4.0	4.2	
TOTAL	11.7	12.5	62.9	67.5	10.0	10.8	5.0	5.4	2.7	2.9	.7	.8	.1	.2	93.2	100	8.8

WIND GRAPH

DEN DENVER, CO

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DEN DENVER, CO

PERIOD: 1948-1978

CLASS 2 / DAY

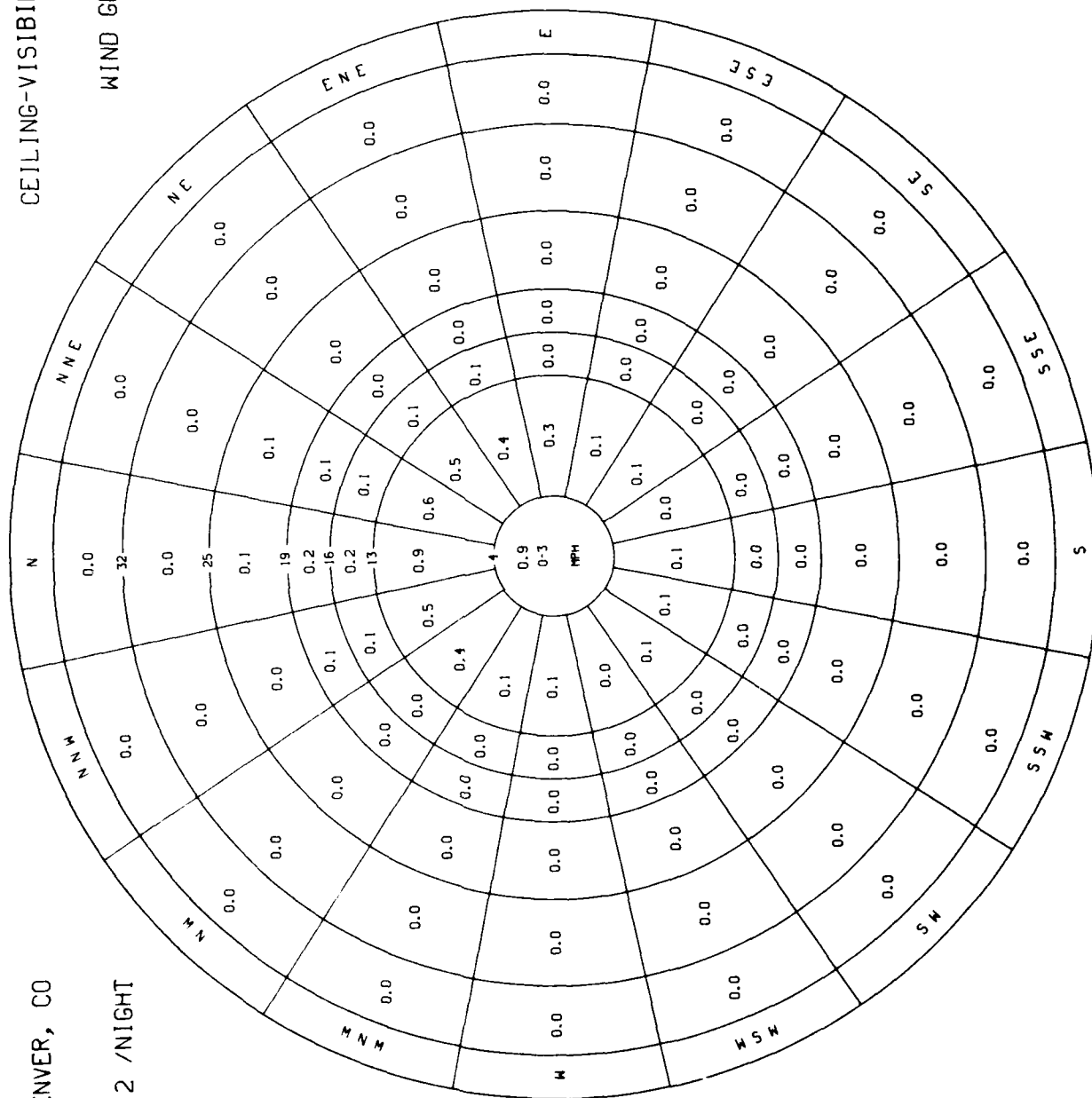
STATION NUMBER: 23062

NO. OBS.: 3055

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	1.1	.9	14.5	.3	4.4	.2	3.3	.1	1.6	.1	1.1	.0	.2	1.6 26.3
NNE	.0	.7	.6	9.2	.1	2.4	.1	1.5	.1	1.4	.0	.3	.0	.2	1.0 15.7
N	.0	.6	.5	7.6	.1	1.7	.0	.7	.0	.3	.0	.1	.0	.1	.7 11.0
ENE	.0	.6	.3	4.9	.1	1.3	.0	.6	.0	.0	.0	.1	.0	.0	.5 7.5
E	.0	.6	.3	4.4	.0	.7	.0	.4	.0	.1	.0	.0	.0	.0	.4 6.2
ESE	.0	.5	.1	1.2	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.1 2.0
SE	.0	.4	.1	1.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1 1.7
SSE	.0	.1	.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1 1.2
S	.0	.2	.1	1.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 1.8
SSW	.0	.3	.1	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 1.7
SW	.0	.3	.0	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 1.1
WSW	.0	.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 .9
W	.0	.3	.0	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1 1.1
WNW	.0	.4	.1	1.3	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1 1.9
NW	.0	.5	.3	4.4	.0	.6	.0	.5	.0	.2	.0	.1	.0	.1	.4 6.4
NNW	.0	.7	.4	6.5	.1	1.7	.1	1.1	.1	.9	.0	.2	.0	.0	.7 11.0
CALM	.2	2.7													.2 2.7
TOTAL	.6	10.2	3.7	60.5	.8	13.5	.5	8.3	.3	4.7	.1	1.9	.0	.8	6.1 10.3

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: DEN DENVER, CO

CLASS 2 / NIGHT

NO. OBS.: 2758

STATION NUMBER: 23062

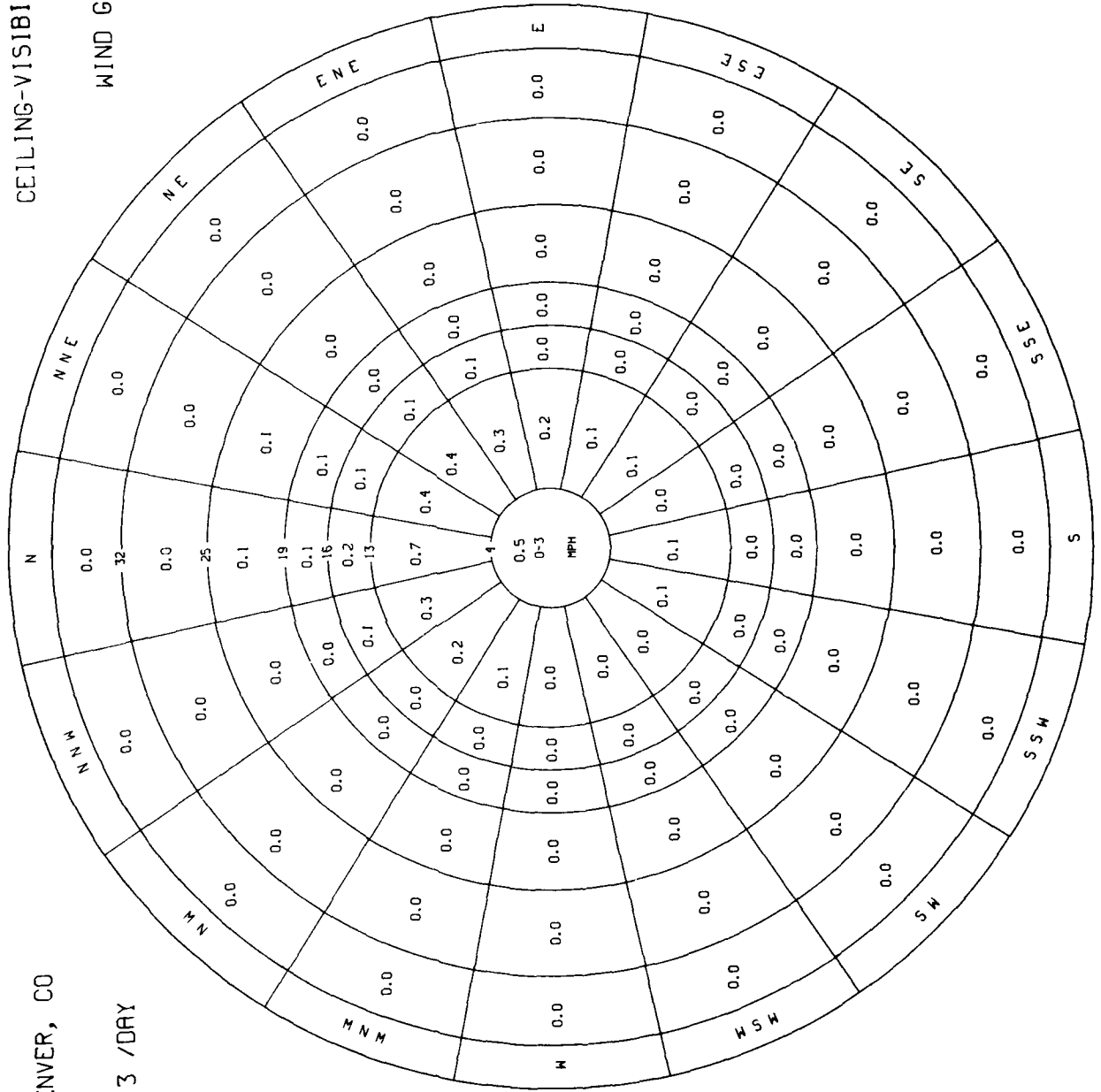
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.1	1.2	.9	12.9	.2	3.2	.2	2.4	.1	1.7	.0	.7	.0	.0	1.5	22.1	11.5
NNE	.1	.8	.6	9.0	.1	2.1	.1	1.3	.1	1.2	.0	.3	.0	.0	1.0	14.8	11.0
NE	.1	1.3	.5	7.4	.1	1.4	.0	.5	.0	.0	.0	.0	.0	.0	.7	10.7	8.6
ENE	.0	.7	.4	5.4	.1	.9	.0	.3	.0	.0	.0	.0	.0	.0	.5	7.4	8.8
E	.1	.9	.3	4.8	.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	.4	6.6	8.0
ESE	.0	.4	.1	2.1	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.2	3.0	7.8
SE	.0	.4	.1	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.5	7.2
SSE	.0	.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.1	8.0
S	.0	.4	.1	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.3	5.9
SSW	.0	.3	.1	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.2	6.8
SW	.0	.5	.1	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.4	5.7
WSW	.0	.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	5.8
W	.0	.2	.1	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.1	7.2
WNW	.0	.4	.1	1.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.4	6.9
NW	.0	.7	.4	5.5	.0	.7	.0	.1	.0	.1	.0	.1	.0	.0	.5	7.2	8.5
NNW	.1	.8	.5	7.4	.1	1.3	.1	.9	.0	.4	.0	.1	.0	.1	.7	11.0	10.0
CALM	.3	4.5													.3	4.5	
TOTAL	.9	13.9	4.4	64.2	.7	10.9	.4	5.9	.2	3.5	.1	1.3	.0	.2	6.8	100	9.0

CEILING-VISIBILITY

WIND GRAPH

DEN DENVER, CO

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DEN DENVER, CO

PERIOD: 1948-1978

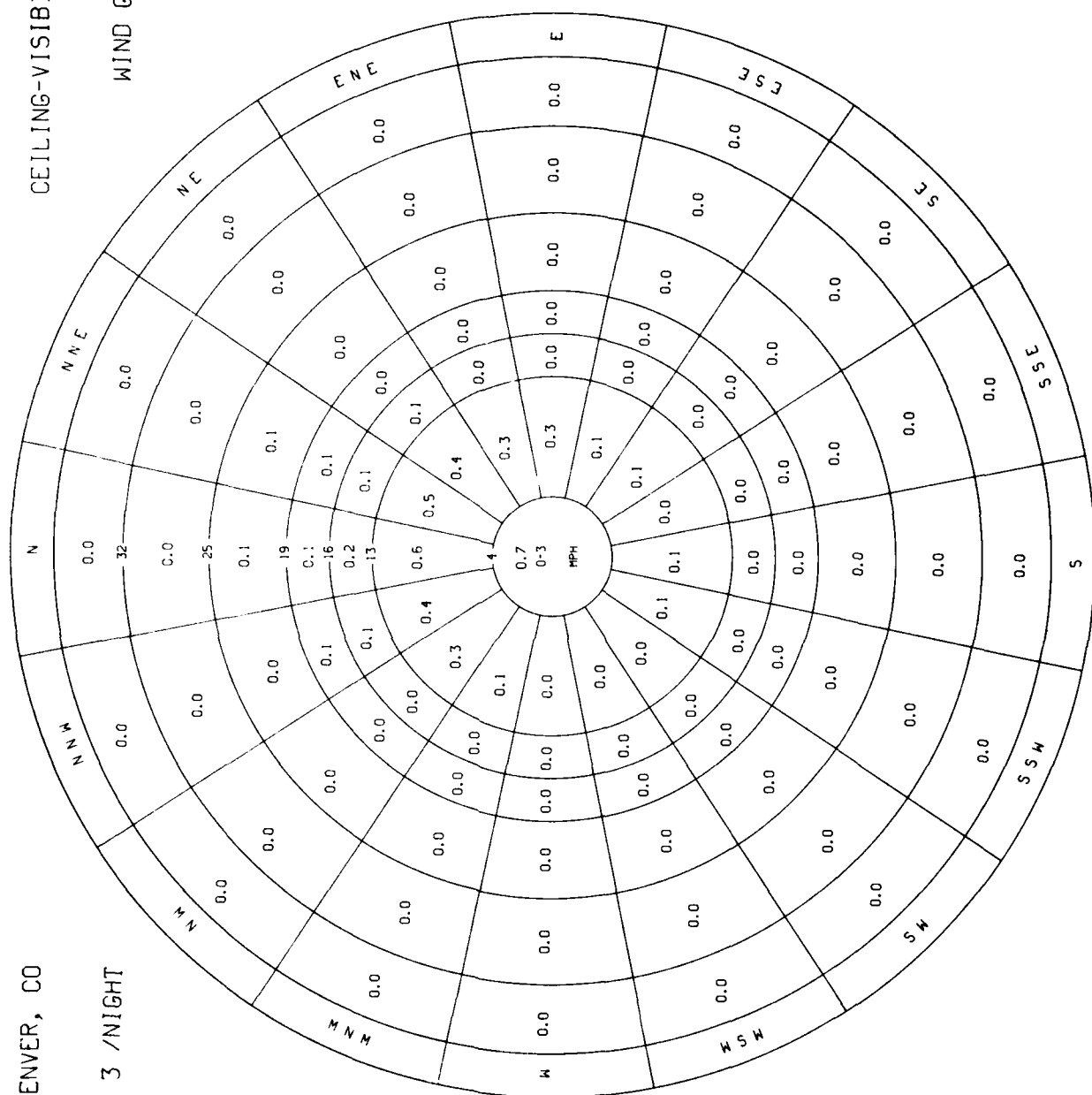
CLASS 3 / DAY

STATION NUMBER: 23062

NO. OBS.: 2403

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			
N	.0	1.0	.7	14.0	.2	4.4	.1	2.6	.1	1.3	.0	.7	.0	.2	1.2	24.2	11.7
NNE	.0	.7	.4	9.1	.1	2.3	.1	1.3	.1	1.2	.0	.3	.0	.2	.7	15.2	11.5
NE	.0	.6	.4	7.9	.1	1.9	.0	.7	.0	.3	.0	.0	.0	.1	.6	11.5	10.1
ENE	.0	.7	.3	5.3	.1	1.3	.0	.6	.0	.0	.0	.1	.0	.0	.4	8.0	9.7
E	.0	.7	.2	4.7	.0	.8	.0	.4	.0	.1	.0	.0	.0	.0	.3	6.7	9.0
ESE	.0	.4	.1	1.2	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.1	2.1	8.6
SE	.0	.5	.1	1.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	1.9	7.5
SSE	.0	.2	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	1.5	9.9
S	.0	.2	.1	1.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.1	8.0
SSW	.0	.3	.1	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.6	6.2
SW	.0	.4	.0	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	5.9
WSW	.0	.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	5.9
W	.0	.3	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.1	6.0
WNW	.0	.4	.1	1.2	.0	.1	.0	.0	.0	.2	.0	.0	.0	.0	.1	2.0	8.8
NW	.0	.5	.2	4.7	.0	.7	.0	.5	.0	.2	.0	.1	.0	.1	.3	6.7	10.2
NNW	.0	.5	.3	6.8	.1	1.8	.0	1.0	.0	.7	.0	.1	.0	.0	.5	10.9	10.9
CALM	.1	2.5													.1	2.5	
TOTAL	.5	10.0	3.0	62.1	.7	13.8	.4	7.5	.2	4.2	.1	1.5	.0	.8	4.8	100	10.1

DEN DENVER, CO
 CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DEN DENVER, CO

PERIOD: 1948-1978

CLASS 3 / NIGHT

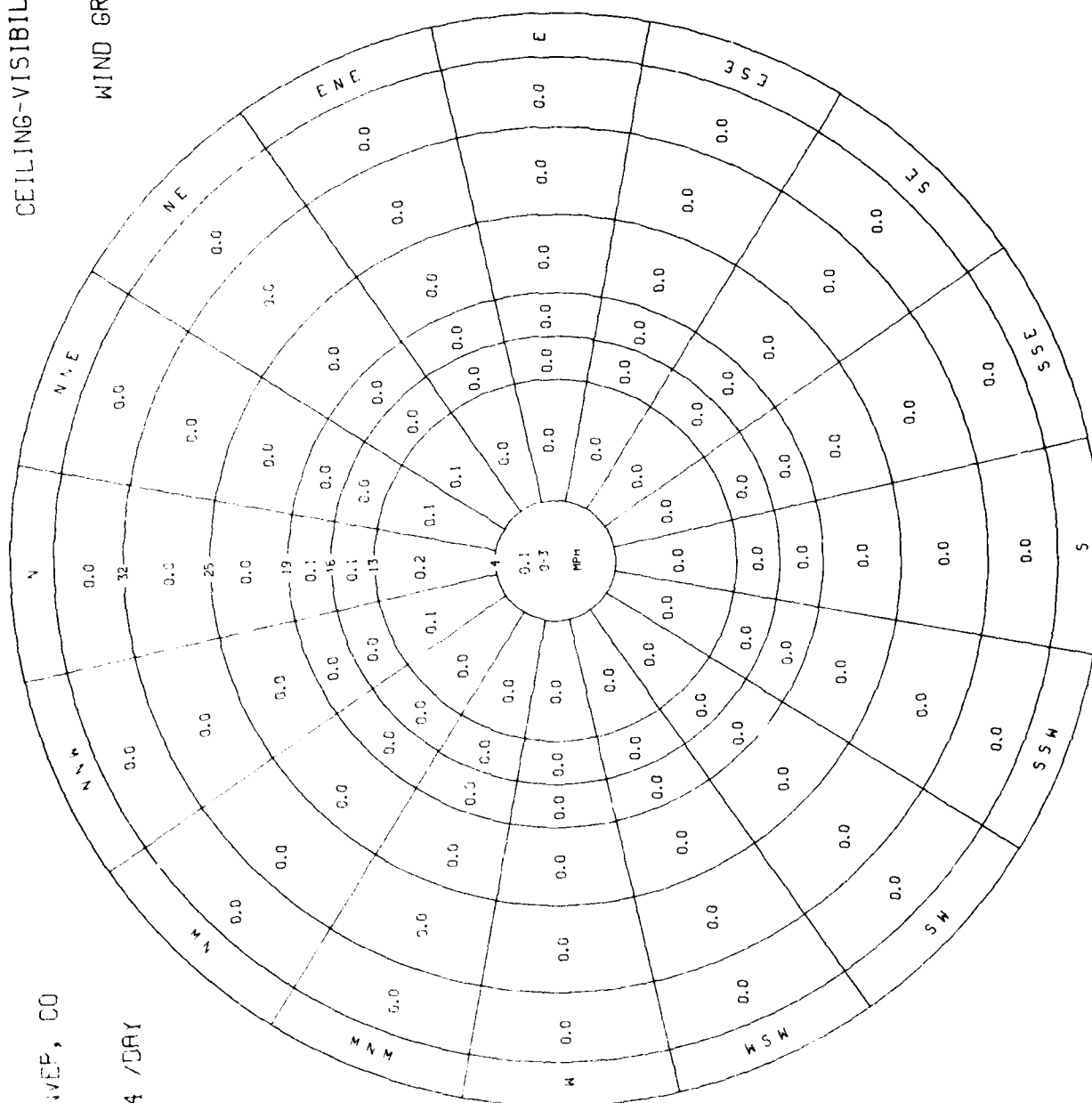
NO. OBS.: 2100

STATION NUMBER: 23062

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	1.1	.6	12.4	.2	3.3	.1	2.0	.1	1.2	.0	.7	.0	.0	1.1	20.9	11.2
NNE	.0	.8	.5	9.3	.1	2.1	.1	1.2	.1	1.1	.0	.2	.0	.0	.8	14.7	10.8
NENE	.1	1.1	.4	7.5	.1	1.5	.0	.5	.0	.0	.0	.0	.0	.0	.6	10.7	8.7
ENE	.0	.6	.3	6.0	.0	.9	.0	.3	.0	.0	.0	.0	.0	.0	.4	7.8	8.7
E	.0	.8	.3	5.1	.0	.8	.0	.2	.0	.0	.0	.0	.0	.0	.4	7.0	8.3
ESE	.0	.5	.1	2.4	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.2	3.4	7.8
SE	.0	.5	.1	1.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.7	6.4
SSE	.0	.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.3	8.2
S	.0	.4	.1	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.2	6.1
SSW	.0	.2	.1	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.1	6.7
SW	.0	.5	.0	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.5	5.6
WSW	.0	.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	5.9
W	.0	.1	.0	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.0	7.9
WNW	.0	.4	.1	2.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.6	7.0
NW	.0	.8	.3	5.6	.0	.8	.0	.2	.0	.1	.0	.1	.0	.0	.4	7.6	8.7
NNW	.0	.8	.4	7.1	.1	1.3	.1	1.0	.0	.4	.0	.1	.0	.1	.6	10.9	10.3
CALM	.2	3.9													.2	3.9	
TOTAL	.7	13.1	3.4	65.4	.6	11.4	.3	5.6	.2	3.1	.1	1.1	.0	.1	5.2	100	9.0

DENVER, CO

CLASS 4 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DEN DENVER, CO

PERIOD: 1948-1978

CLASS 4 / DAY

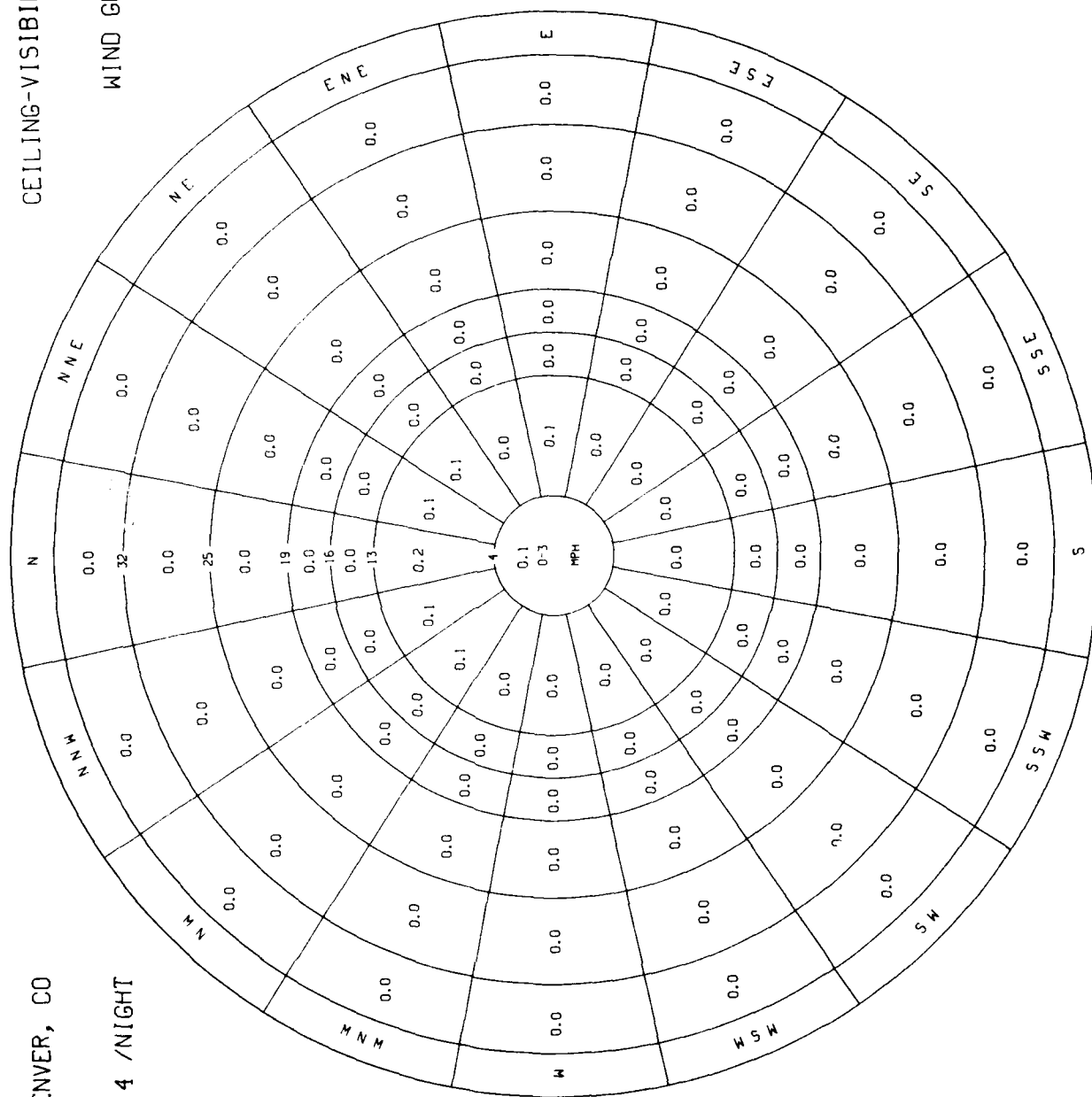
STATION NUMBER: 23062

NO. OBS.: 504

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			
N	.0	1.0	.2	16.5	.1	5.2	.1	6.0	.0	2.4	.0	2.6	.0	.0	.3	33.5	13.4
NNE	.0	.6	.1	10.5	.0	3.4	.0	2.6	.0	2.0	.0	.2	.0	.4	.2	19.6	12.1
NE	.0	.6	.1	6.9	.0	1.2	.0	.8	.0	.4	.0	.0	.0	.0	.1	9.9	9.6
ENE	.0	.4	.0	3.0	.0	1.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	5.0	9.4
E	.0	.4	.0	3.8	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	5.0	8.7
ESE	.0	.2	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	5.7
SE	.0	.4	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	7.8
SSE	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	5.0
S	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	6.7
SSW	.0	.4	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	6.9
SW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	6.0
WSW	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	9.5
W	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.0	.6	22.3
WNW	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	7.9
NW	.0	.6	.0	3.6	.0	.4	.0	.4	.0	.4	.0	.2	.0	.0	.1	5.6	9.2
NNW	.0	1.2	.1	5.8	.0	1.6	.0	1.4	.0	1.2	.0	.4	.0	.0	.1	11.5	11.8
CALM	.0	2.2													.0	2.2	
TOTAL	.1	7.9	.6	56.0	.1	13.9	.1	11.9	.1	6.3	.0	3.4	.0	.6	1.0	100	11.2

CEILING-VISIBILITY

WIND GRAPH



DEN DENVER, CO

CLASS 4 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DEN. DENVER.

PERIOD: 1948-1978

CLASS 4 / NIGHT

STATION NUMBER: 23062

NO. OBS.: 453

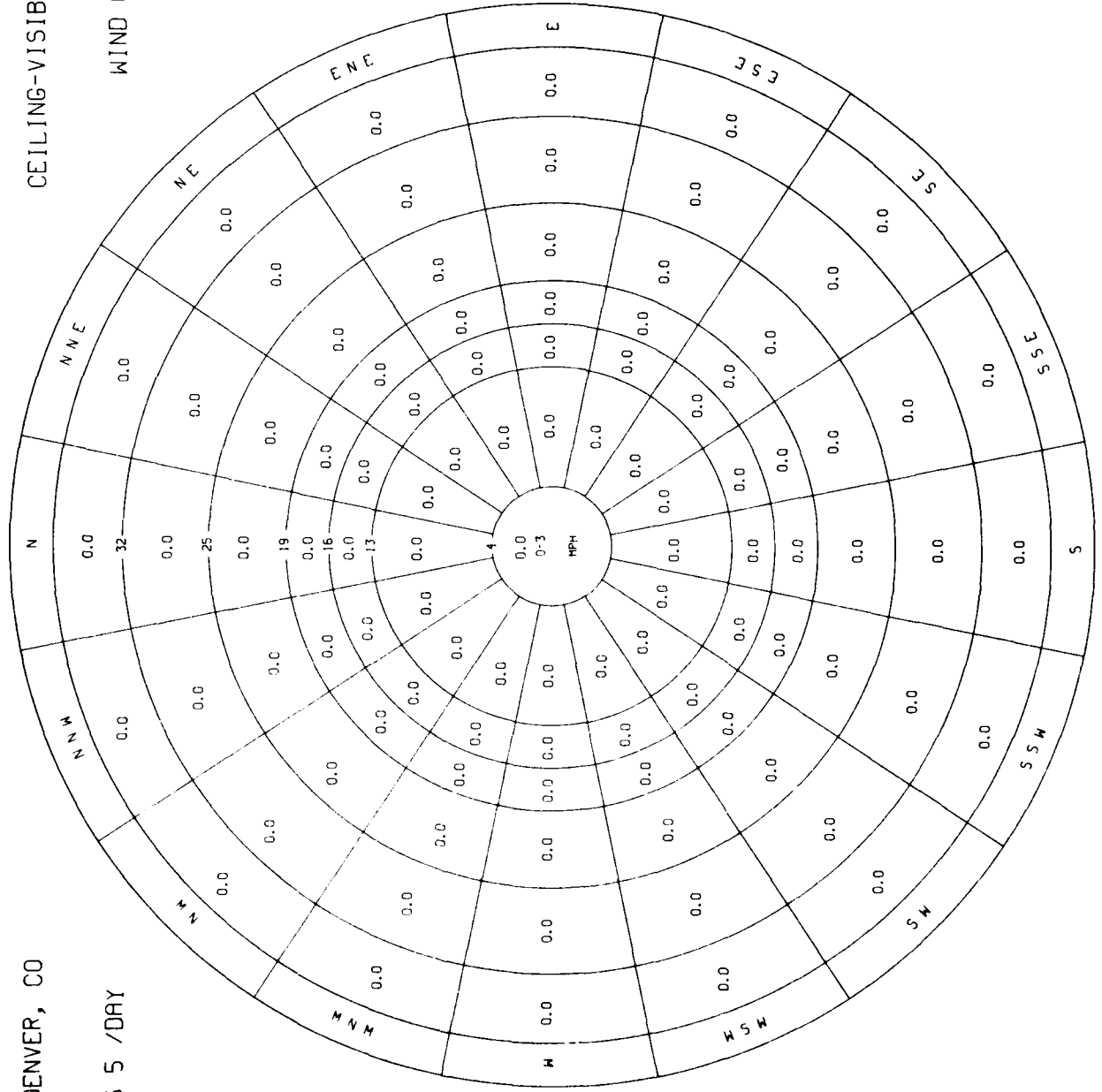
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.5	.2	14.3	.0	2.6	.0	4.0	.0	3.1	.0	1.1	.0	.0	.3	26.7	12.4
NNE	.0	1.3	.1	8.2	.0	2.4	.0	2.0	.0	1.8	.0	.7	.0	.0	.2	16.3	12.1
NE	.0	.9	.1	7.3	.0	1.5	.0	.4	.0	.0	.0	.0	.0	.0	.1	10.2	8.9
ENE	.0	.7	.0	4.2	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.1	6.6	9.3
E	.0	1.1	.1	4.6	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.1	6.2	7.2
ESE	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.5	8.9
SE	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	24.0
SSE	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	6.0
S	.0	.2	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	5.6
SSW	.0	.0	.0	1.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	7.3
SW	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	6.0
WSW	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	8.5
W	.0	.4	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	5.7
WNW	.0	.2	.0	.9	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	7.8
NW	.0	.7	.1	5.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.4	7.5
NNW	.0	.2	.1	10.2	.0	1.8	.0	1.1	.0	.0	.0	.0	.0	.0	.1	13.2	9.2
CALM	.0	3.8													.0	3.8	
TOTAL	.1	11.5	.7	62.5	.1	10.8	.1	8.2	.1	5.1	.0	1.8	.0	.2	1.1	100	9.8

DEN DENVER, CO

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



ANNUAL

PERIOD: 1948-1978

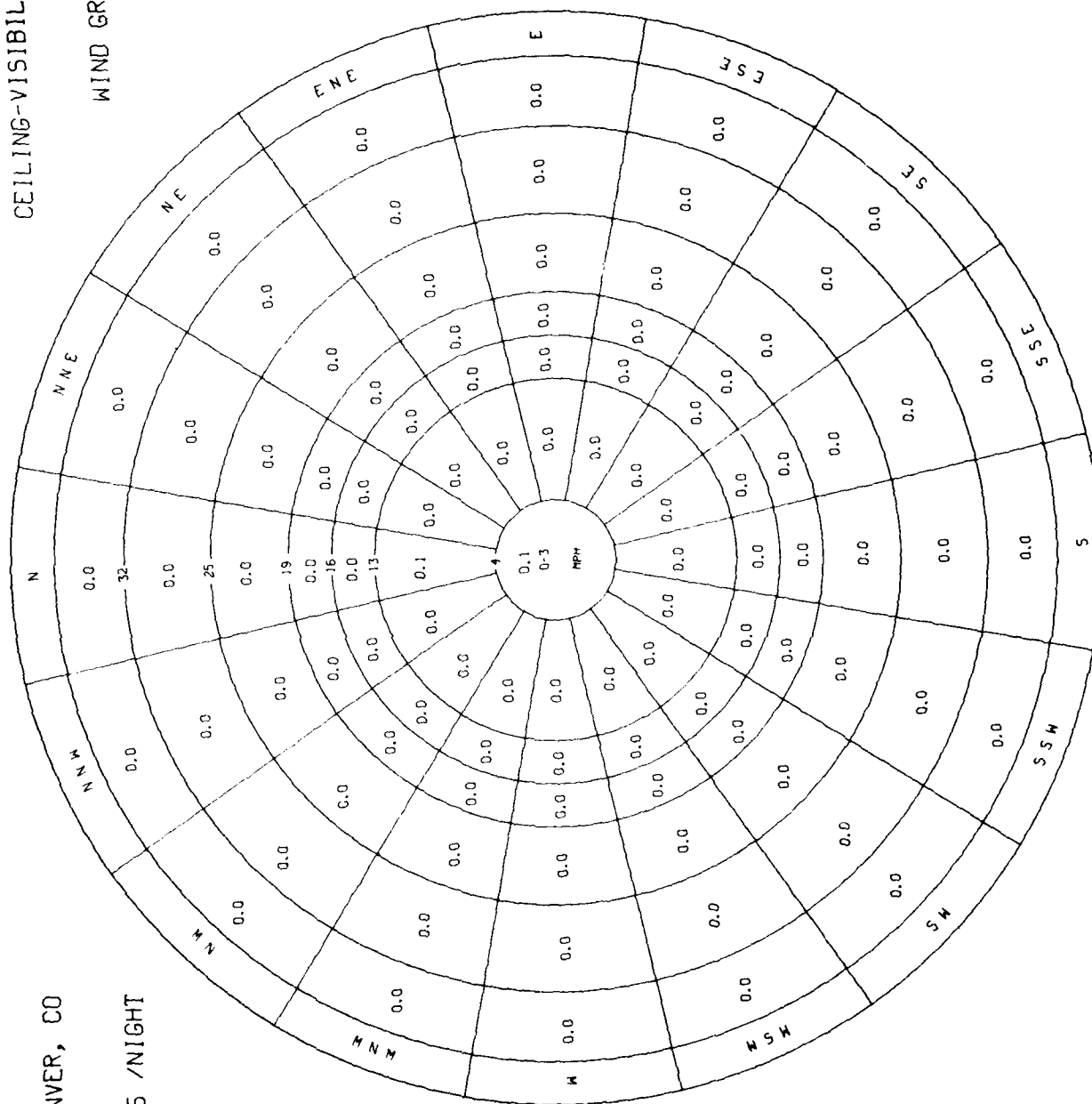
CLASS 5 / DAY

NO. OBS.: 90

O I R	SPEED GROUPS (MPH)																AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D			
N	.0	3.3	.0	21.1	.0	3.3	.0	7.8	.0	3.3	.0	1.1	.0	1.1	.0	1.1	.0	1.1	12.1
NNE	.0	.0	.0	7.8	.0	1.1	.0	2.2	.0	2.2	.0	.0	.0	.0	.0	.0	.0	13.3	12.1
NE	.0	.0	.0	3.3	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	11.6
ENE	.0	.0	.0	4.4	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	8.4
E	.0	1.1	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	7.0
ESE	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	3.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	6.7
SW	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	9.7
WSW	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	4.5
W	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	18.3
WNW	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	10.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	11.5
NNW	.0	1.1	.0	.0	.0	.0	.0	2.2	.0	3.3	.0	.0	.0	.0	.0	.0	.0	6.7	18.2
CALM	.0	2.2															.0	2.2	
TOTAL	.0	13.3	.1	50.0	.0	8.9	.0	14.4	.0	10.0	.0	1.1	.0	2.2	.0	2.2	.0	100	11.2

WIND GRAPH

CLASS 5 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DEN DENVER, CO

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 23062

NO. OBS.: 129

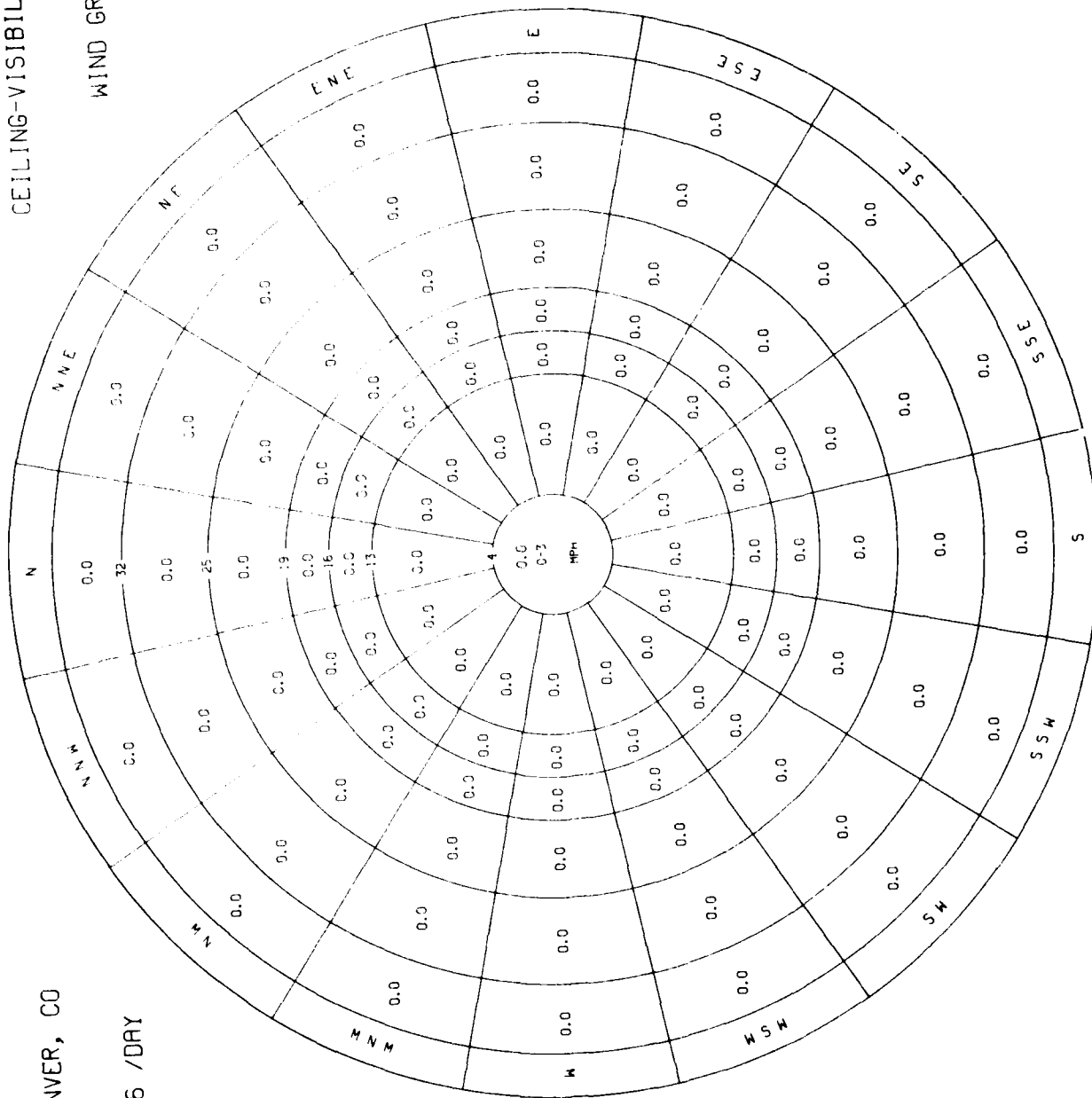
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.6	.1	18.6	.0	3.9	.0	2.3	.0	4.7	.0	.8	.0	.8	.1 32.6
NNE	.0	.0	.0	7.8	.0	3.1	.0	2.3	.0	.0	.0	.8	.0	.0	.0 14.0
NE	.0	4.7	.0	7.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0 13.2
ENE	.0	.0	.0	3.1	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0 4.7
E	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.1
ESE	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.6
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
S	.0	1.6	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.9
SSW	.0	1.6	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.9
SW	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
WSW	.0	.8	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
W	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
WNW	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.6
NW	.0	.0	.0	3.9	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.7
NNW	.0	1.6	.0	3.1	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0 5.4
CALM	.0	7.8													.0 7.8
TOTAL	.1	21.7	.2	55.0	.0	9.3	.0	5.4	.0	6.2	.0	1.6	.0	.8	.3 100
															8.7

CEILING-VISIBILITY

WIND GRAPH

DEN DENVER, CO

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DEN DENVER, CO

PERIOD: 1948-1978

CLASS 6 / DAY

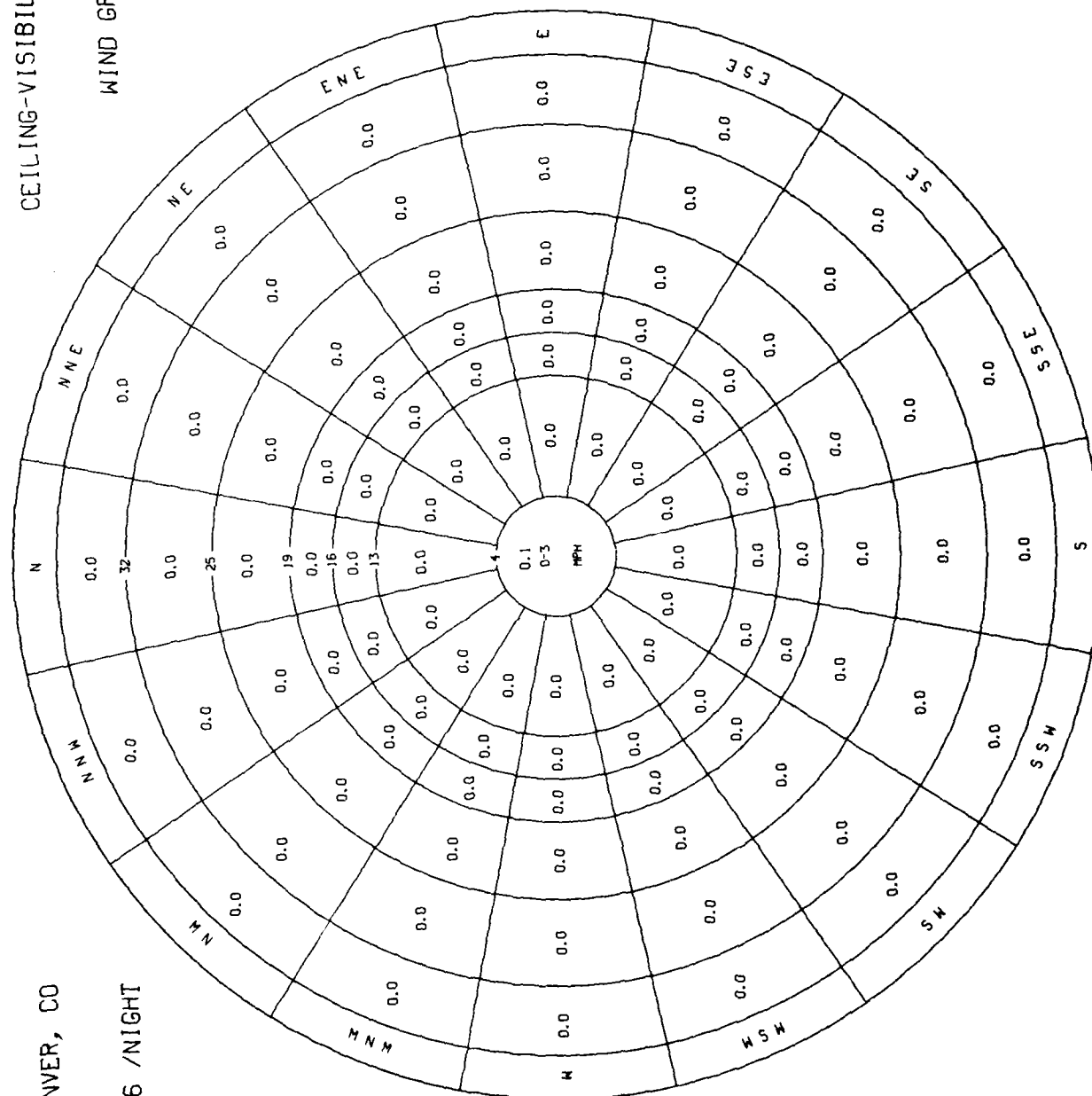
STATION NUMBER: 23062

NO. OBS.: 58

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	6.9	.0	10.3	.0	.0	.0	1.7	.0	3.4	.0	3.4	.0	.0	.0	25.9	11.5
NNE	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	5.2	14.0
NE	.0	.0	.0	5.2	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	6.9	10.7
ENE	.0	1.7	.0	6.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.6	5.2
E	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	7.0
ESE	.0	1.7	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	4.7
SE	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	5.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	3.0
SSW	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	2.0
SW	.0	.0	.0	6.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9	8.2
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	2.5
WNW	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	2.0
NW	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	2.0
NNW	.0	1.7	.0	10.3	.0	1.7	.0	.0	.0	1.7	.0	.0	.0	.0	.0	15.5	9.3
CALM	.0	12.1													.0	12.1	
TOTAL	.0	34.5	.1	50.0	.0	1.7	.0	1.7	.0	5.2	.0	6.9	.0	.0	.1	100	7.6

WIND GRAPH

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: DEN DENVER, CO

CLASS 6 / NIGHT

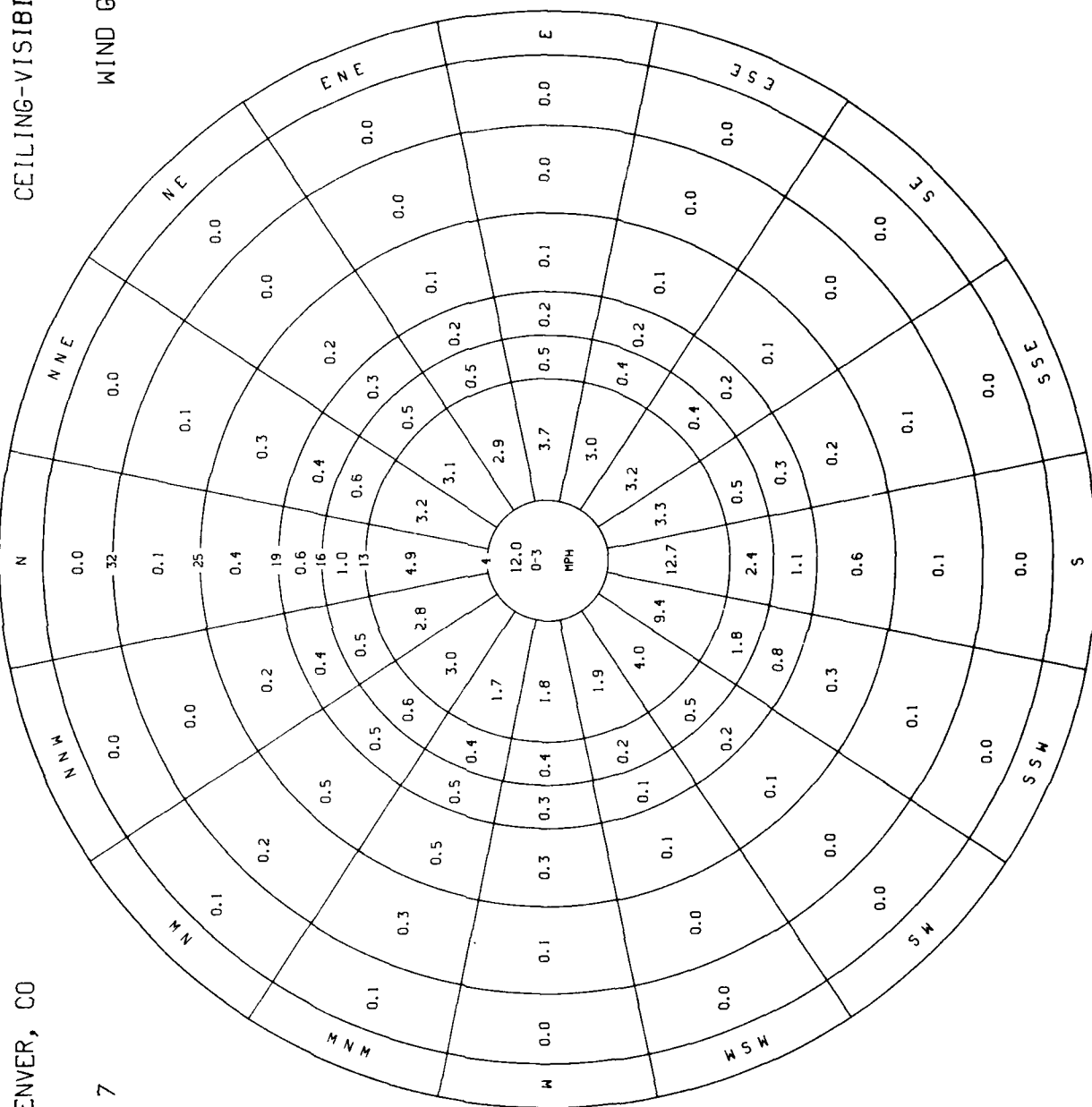
NO. OBS.: 76

STATION NUMBER: 23062

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.3	.0	7.9	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	10.5
NNE	.0	1.3	.0	7.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.2
NE	.0	2.6	.0	7.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.5
ENE	.0	2.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9
E	.0	2.6	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	5.3
ESE	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
SE	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9
SSW	.0	.0	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9
SW	.0	1.3	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9
WSW	.0	1.3	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9
W	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
WNW	.0	2.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9
NW	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3
NNW	.0	1.3	.0	7.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19.7
CALM	.0	19.7													19.7
TOTAL	1	38.2	1	57.9	.0	1.3	.0	1.3	.0	.0	.0	1.3	.0	.0	5.3

CEILING-VISIBILITY

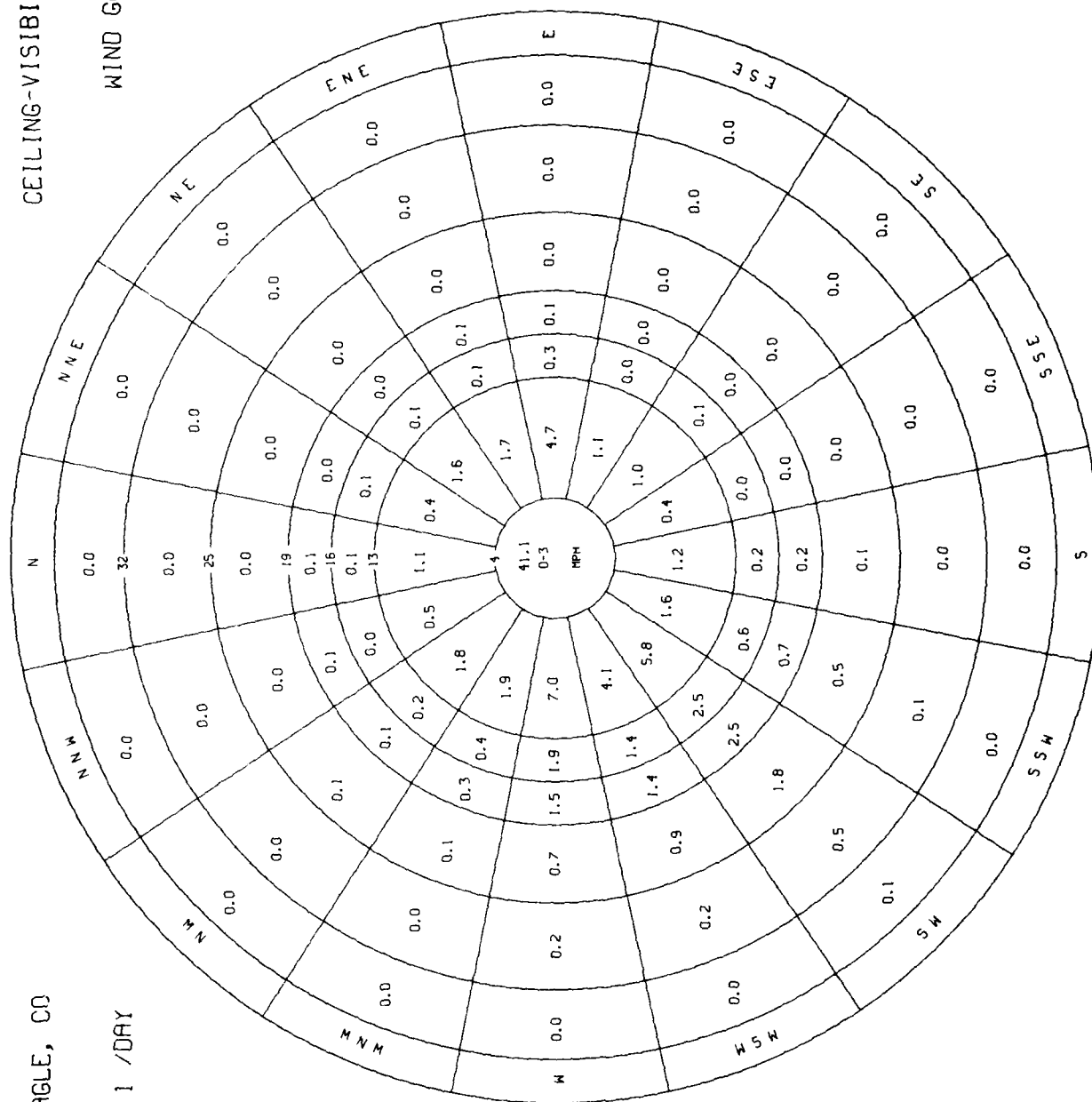
WIND GRAPH



WIND GRAPH

EAGLE, CO

CLASS 1 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: EGE EAGLE, CO

CLASS 1 / DAY

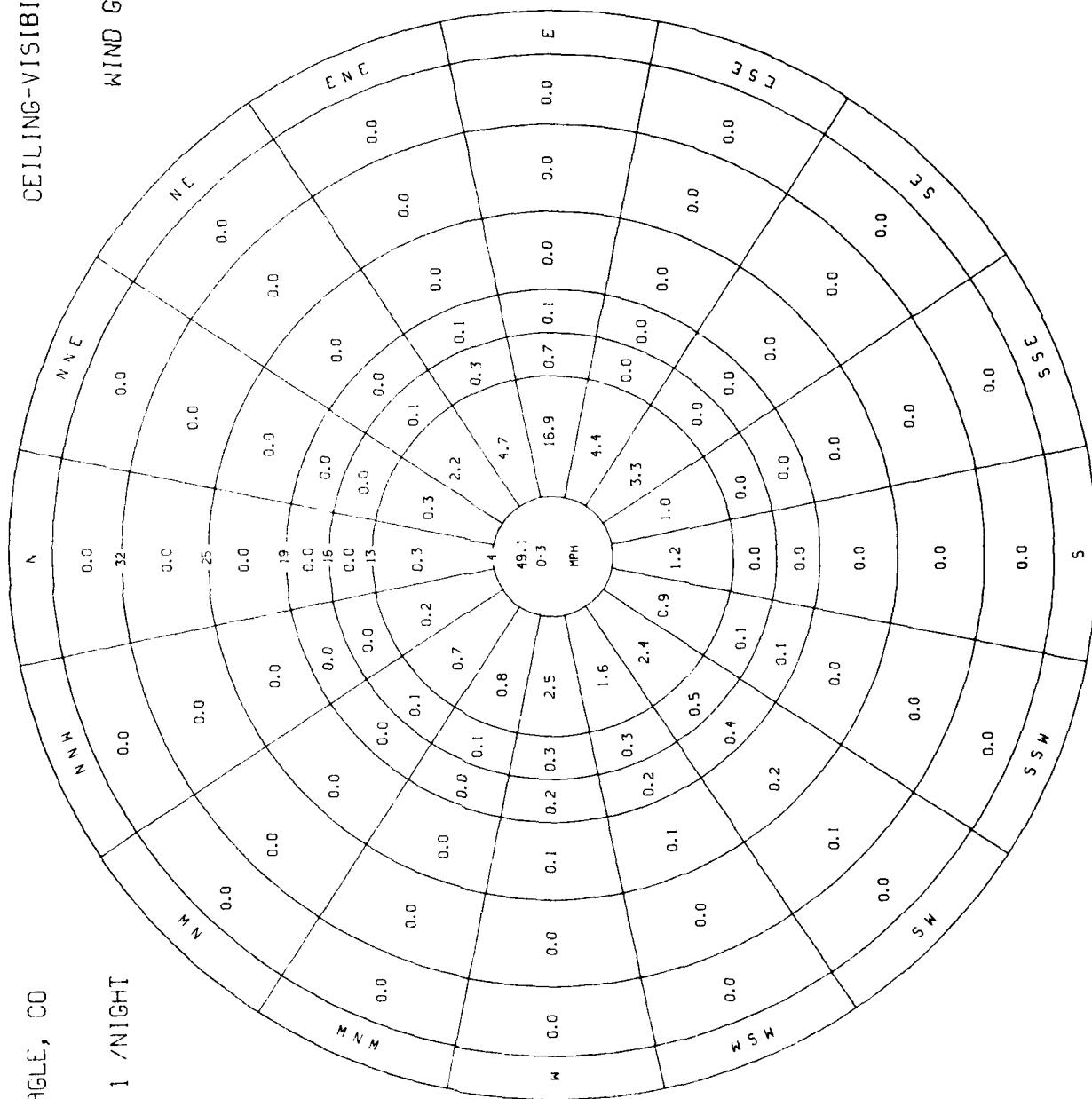
NO. OBS.: 49909

STATION NUMBER: 23063

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.4	.4	1.1	1.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	1.7	1.7	7.1
NNE	.1	.1	.4	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	7.7
NE	.5	.5	1.6	1.7	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	2.3	2.4	7.2
ENE	.2	.2	1.7	1.7	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	2.1	2.1	7.8
E	1.1	1.1	4.7	4.8	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	6.2	6.3	7.1
ESE	.2	.2	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.4	6.5
SE	.5	.5	1.0	1.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.7	6.2
SSE	.1	.1	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	7.6
S	.3	.3	1.2	1.2	.2	.2	.2	.2	.1	.1	.0	.0	.0	.0	2.0	2.1	9.7
SSW	.1	.1	1.6	1.6	.6	.6	.7	.8	.5	.5	.1	.1	.0	.0	3.7	3.8	13.3
SW	.6	.7	5.8	5.9	2.5	2.5	2.5	2.5	1.8	1.8	.5	.5	.1	.1	13.8	14.0	13.4
WSW	.3	.3	4.1	4.2	1.4	1.5	1.4	1.5	.9	.9	.2	.2	.0	.0	8.4	8.6	12.6
W	1.1	1.1	7.0	7.1	1.9	1.9	1.5	1.5	.7	.8	.2	.2	.0	.0	12.4	12.6	10.7
WNW	.2	.2	1.9	2.0	.4	.4	.3	.3	.1	.1	.0	.0	.0	.0	3.0	3.1	10.0
NW	.6	.6	1.8	1.9	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	2.8	2.9	7.8
NNW	.1	.1	.5	.5	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.7	.7	8.6
CALM	34.7	35.4													34.7	35.4	
TOTAL	41.1	42.0	35.9	36.6	8.1	8.3	7.2	7.4	4.4	4.5	1.1	1.1	.1	.1	98.0	100	6.8

EDGE EAGLE, CO

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: EGE EAGLE, CO

CLASS 1 / NIGHT

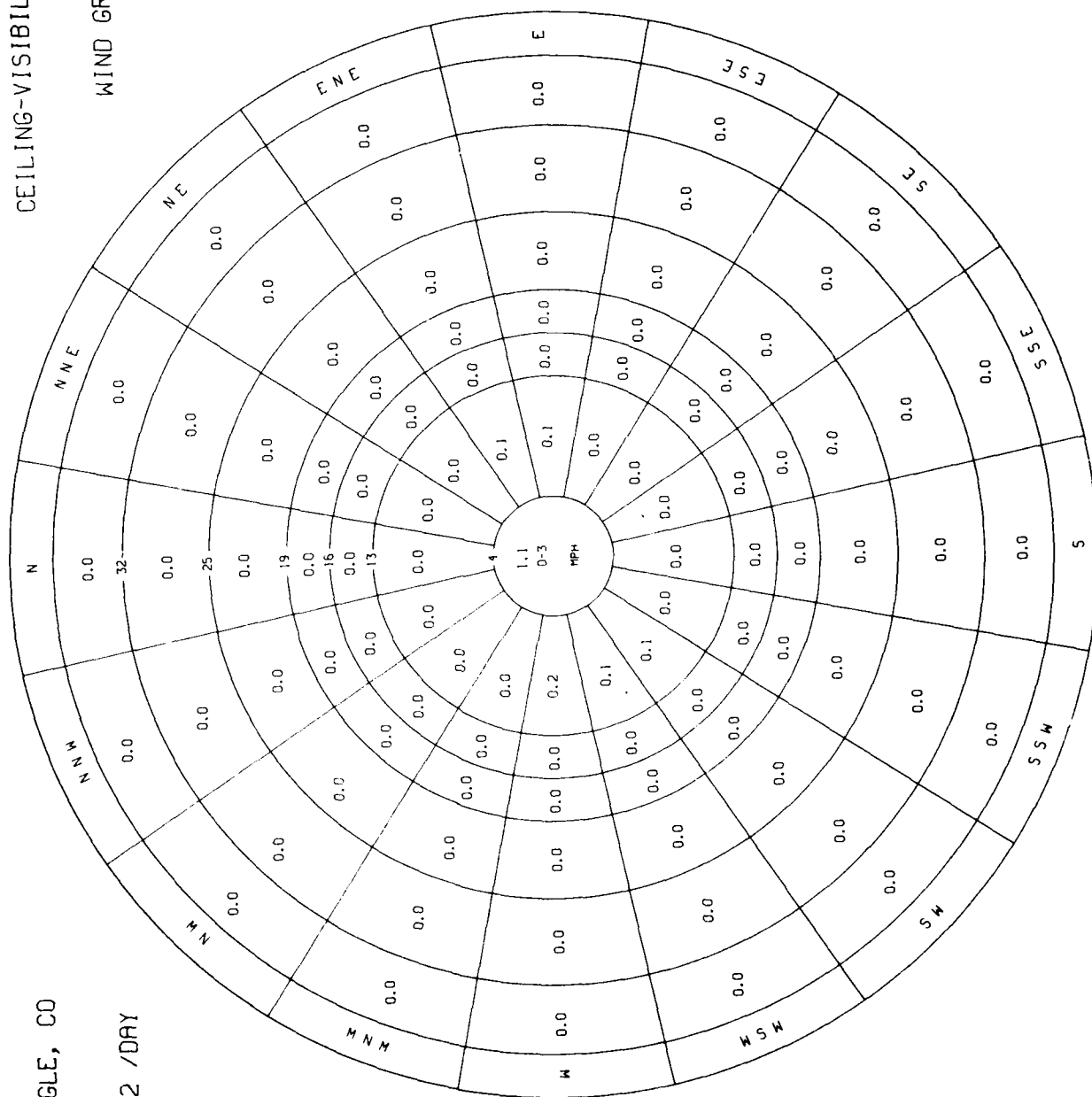
NO. OBS.: 38296

STATION NUMBER: 23063

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
NNE	.1	.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
NE	.7	.7	2.2	2.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	3.0
ENE	.5	.6	4.7	4.8	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	5.6
E	3.2	3.3	16.9	17.4	.7	.7	.1	.1	.0	.0	.0	.0	.0	.0	20.8
ESE	.9	1.0	4.4	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4
SE	1.9	1.9	3.3	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2
SSE	.3	.3	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2
S	.4	.4	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7
SSW	.1	.1	.9	.9	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	1.2
SW	.4	.4	2.4	2.5	.5	.6	.4	.4	.2	.2	.1	.1	.0	.0	4.1
WSW	.1	.1	1.6	1.6	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	2.4
W	.4	.4	2.5	2.6	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	3.5
WNW	.1	.1	.8	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.0
NW	.2	.2	.7	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.1
NNW	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
CALM	39.6	40.9													39.6
TOTAL	49.1	50.7	43.2	44.6	2.7	2.8	1.2	1.2	.5	.5	.1	.1	.0	.0	96.8
															100
															4.3

CEILING-VISIBILITY

WIND GRAPH



EGE EAGLE, CO

CLASS 2 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EGE EAGLE, CO

PERIOD: 1948-1978

CLASS 2 / DAY

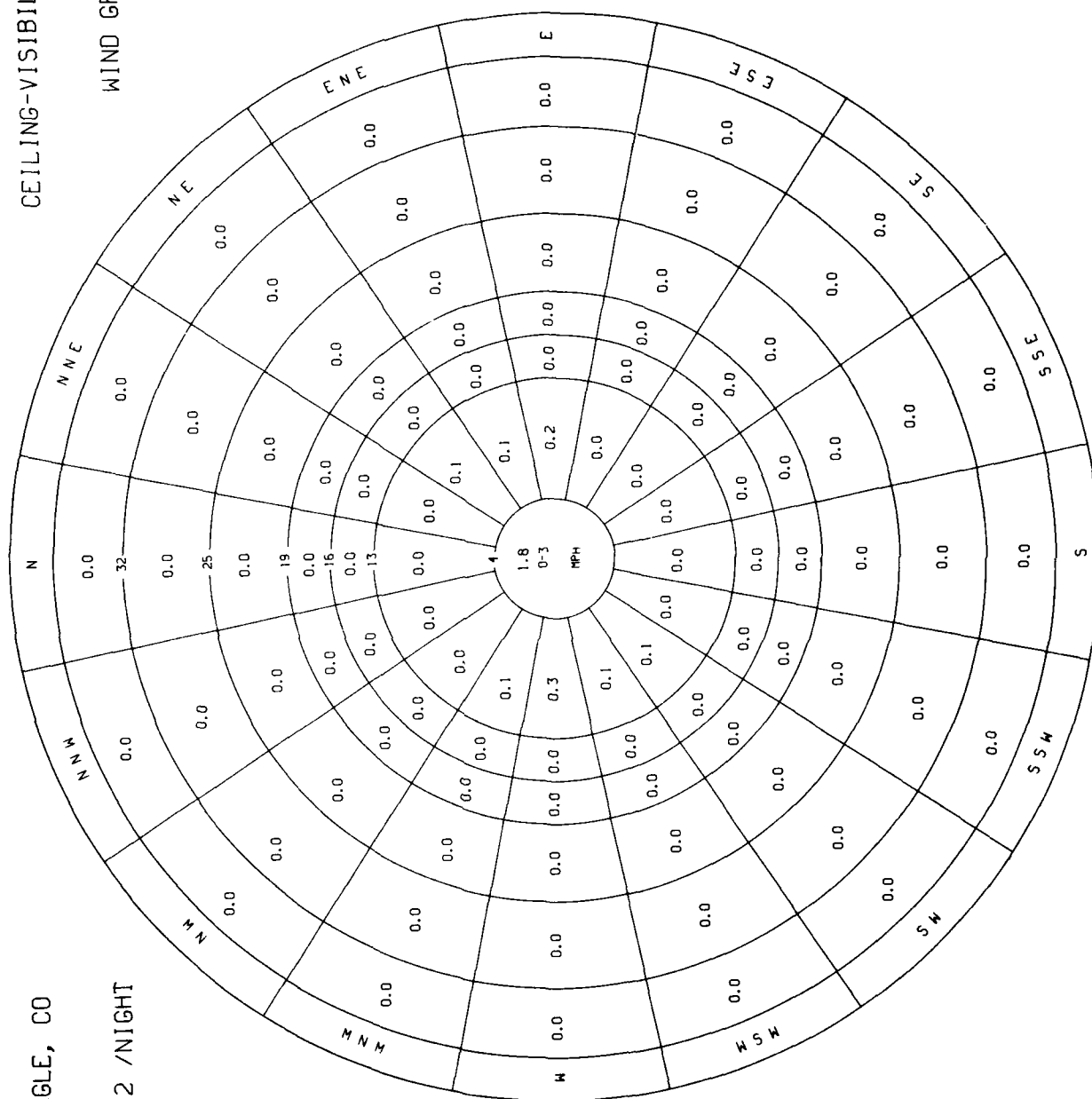
STATION NUMBER: 23063

NO. OBS.: 1034

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.0	.5	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0 1.0
NNE	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0 .2
NE	.0	.6	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.0
ENE	.0	.1	.1	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 2.8
E	.0	1.3	.1	4.4	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1 5.8
ESE	.0	.1	.0	.6	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0 .8
SE	.0	.5	.0	1.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.1
SSE	.0	.1	.0	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0 .7
S	.0	.6	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.1
SSW	.0	.1	.0	1.4	.0	.1	.0	.1	.0	.2	.0	.0	.0	.0	.0 1.8
SW	.0	1.4	.1	4.3	.0	.4	.0	.7	.0	1.3	.0	.3	.0	.1	.2 8.3
WSW	.0	.7	.1	4.4	.0	.9	.0	.7	.0	.7	.0	.3	.0	.0	.2 7.5
W	.0	2.1	.2	10.0	.0	.8	.0	.7	.0	.3	.0	.2	.0	.0	.3 14.0
WNW	.0	.6	.0	1.8	.0	.8	.0	.0	.0	.2	.0	.2	.0	.0	.1 3.6
NW	.0	.2	.0	1.5	.0	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0 1.9
NNW	.0	.0	.0	.5	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0 .7
CALM	.9	44.6													.9 44.6
TOTAL	1.1	53.2	.7	36.8	.1	3.4	.1	2.5	.1	3.1	.0	1.0	.0	.1	2.0 100

CEILING-VISIBILITY

WIND GRAPH



EDGE EAGLE, CO

CLASS 2 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EGE EAGLE, CO

PERIOD: 1948-1978

CLASS 2 / NIGHT

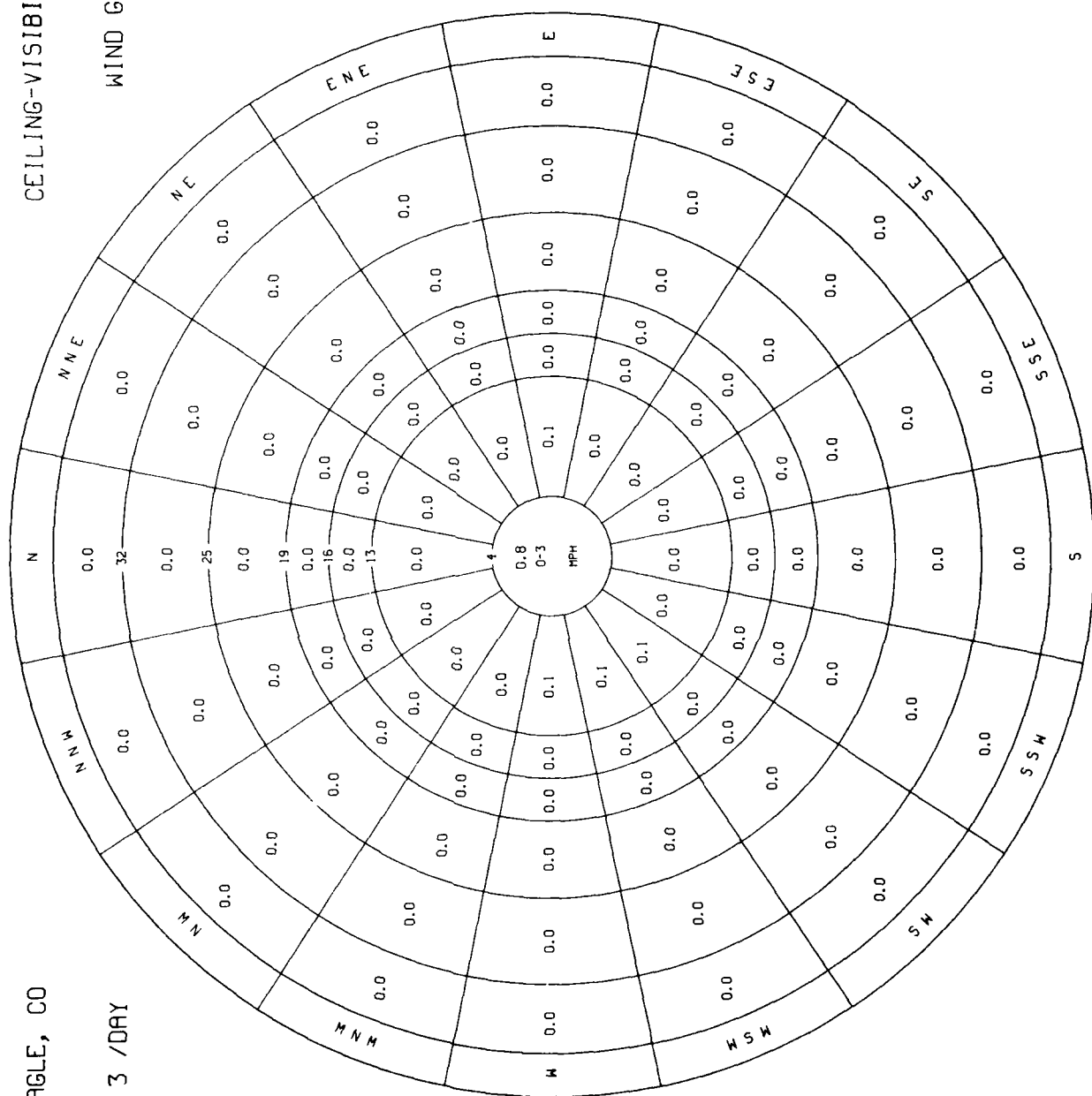
STATION NUMBER: 23063

NO. OBS.: 1247

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
NNE	.0	.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
NE	.0	1.1	.1	1.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	3.1
ENE	.0	.6	.1	4.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	4.7
E	.1	2.8	.2	6.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	9.5
ESE	.0	.1	.0	1.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.6
SE	.0	.7	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5
SSE	.0	.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0
S	.0	.5	.0	.6	.0	.2	.0	.0	.0	.1	.0	.0	.0	.1	1.4
SSW	.0	.2	.0	1.5	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	2.0
SW	.0	1.2	.1	3.4	.0	.7	.0	.3	.0	.2	.0	.1	.0	.0	6.0
WSW	.0	.6	.1	2.5	.0	.6	.0	.2	.0	.2	.0	.2	.0	.1	4.3
W	.1	1.6	.3	9.1	.0	.7	.0	.6	.0	.0	.0	.0	.0	.0	11.9
WNW	.0	.2	.1	2.6	.0	.6	.0	.2	.0	.0	.0	.0	.0	.0	3.6
NW	.0	.4	.0	.6	.0	.2	.0	.2	.0	.1	.0	.0	.0	.0	1.4
NNW	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
CALM	1.5	46.2													46.2
TOTAL	1.8	56.6	1.2	37.4	.1	3.4	.0	1.5	.0	.6	.0	.2	.0	.2	46.2
															100

CEILING-VISIBILITY

WIND GRAPH



EGE ERGLE, CO

CLASS 3 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: EGE EAGLE, CO

CLASS 3 / DAY

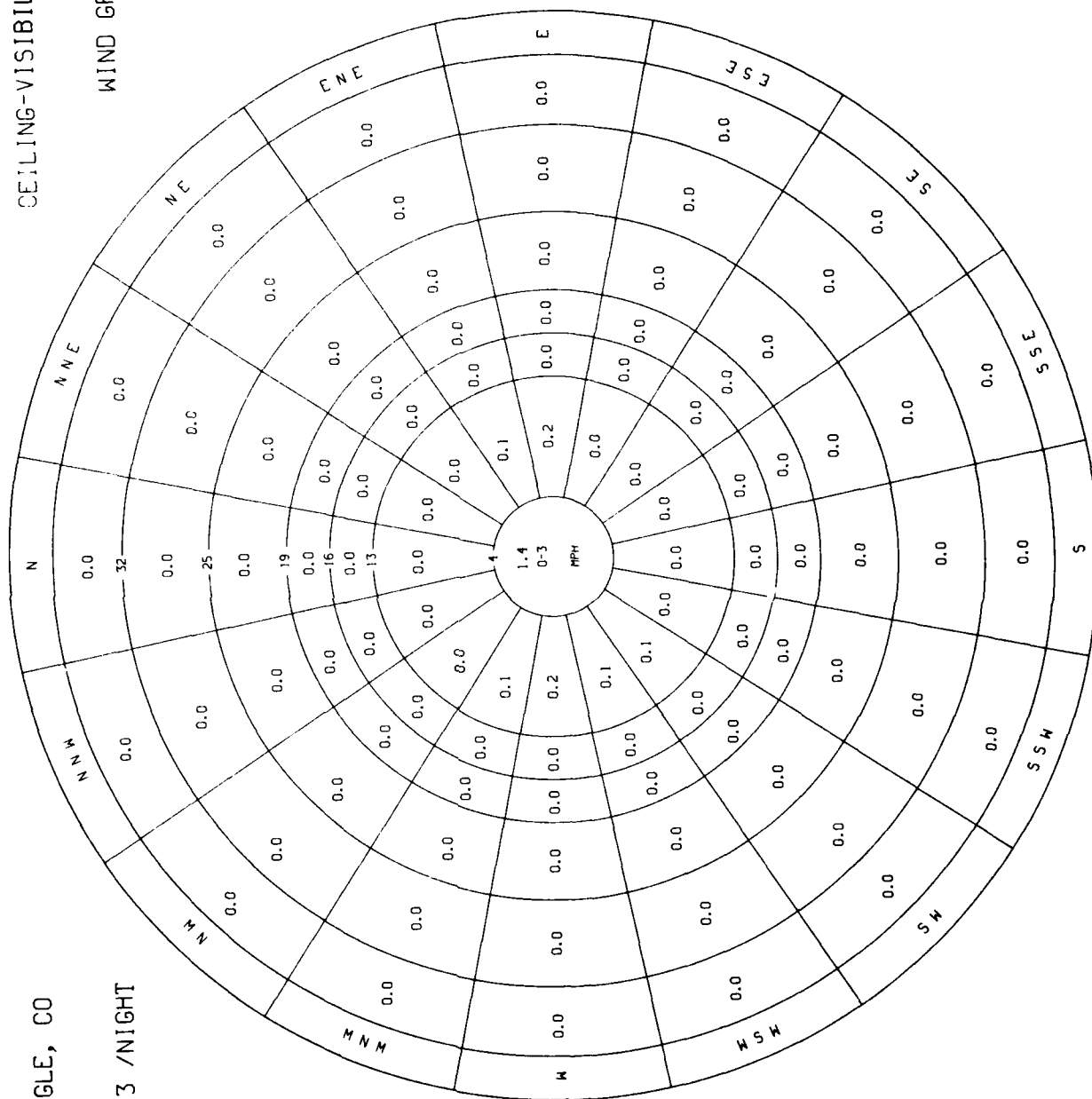
NO. OBS.: 787

STATION NUMBER: 23063

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D		
N	.0	.3	.0	.5	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.9	8.3
NNE	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3	9.5
NE	.0	.6	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	5.6
ENE	.0	.1	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	7.2
E	.0	1.4	.1	5.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	6.7	7.0
ESE	.0	.0	.0	.5	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.6	7.4
SE	.0	.5	.0	1.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	6.5
SSE	.0	.1	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	7.8
S	.0	.5	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	6.4
SSW	.0	.1	.0	1.1	.0	.1	.0	.1	.0	.3	.0	.0	.0	.0	.0	1.8	9.6
SW	.0	1.5	.1	4.2	.0	.5	.0	.6	.0	1.5	.0	.4	.0	.0	.1	8.8	11.2
WSW	.0	.5	.1	3.9	.0	.9	.0	.8	.0	.9	.0	.4	.0	.0	.1	7.4	11.1
W	.0	2.3	.1	9.3	.0	.8	.0	.9	.0	.4	.0	.3	.0	.0	.2	13.9	9.0
WNW	.0	.5	.0	1.8	.0	.9	.0	.0	.0	.0	.0	.1	.0	.0	.1	3.3	9.6
NW	.0	.3	.0	1.7	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	2.2	7.5
NNW	.0	.0	.0	.4	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.6	12.0
CALM	.7	43.5													.7	43.5	
TOTAL	.8	52.4	.6	36.3	.1	3.8	.0	2.9	.1	3.4	.0	1.1	.0	.0	1.5	100	5.1

EGE EAGLE, CO

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EGE EAGLE, CO

PERIOD: 1948-1978

CLASS 3 / NIGHT

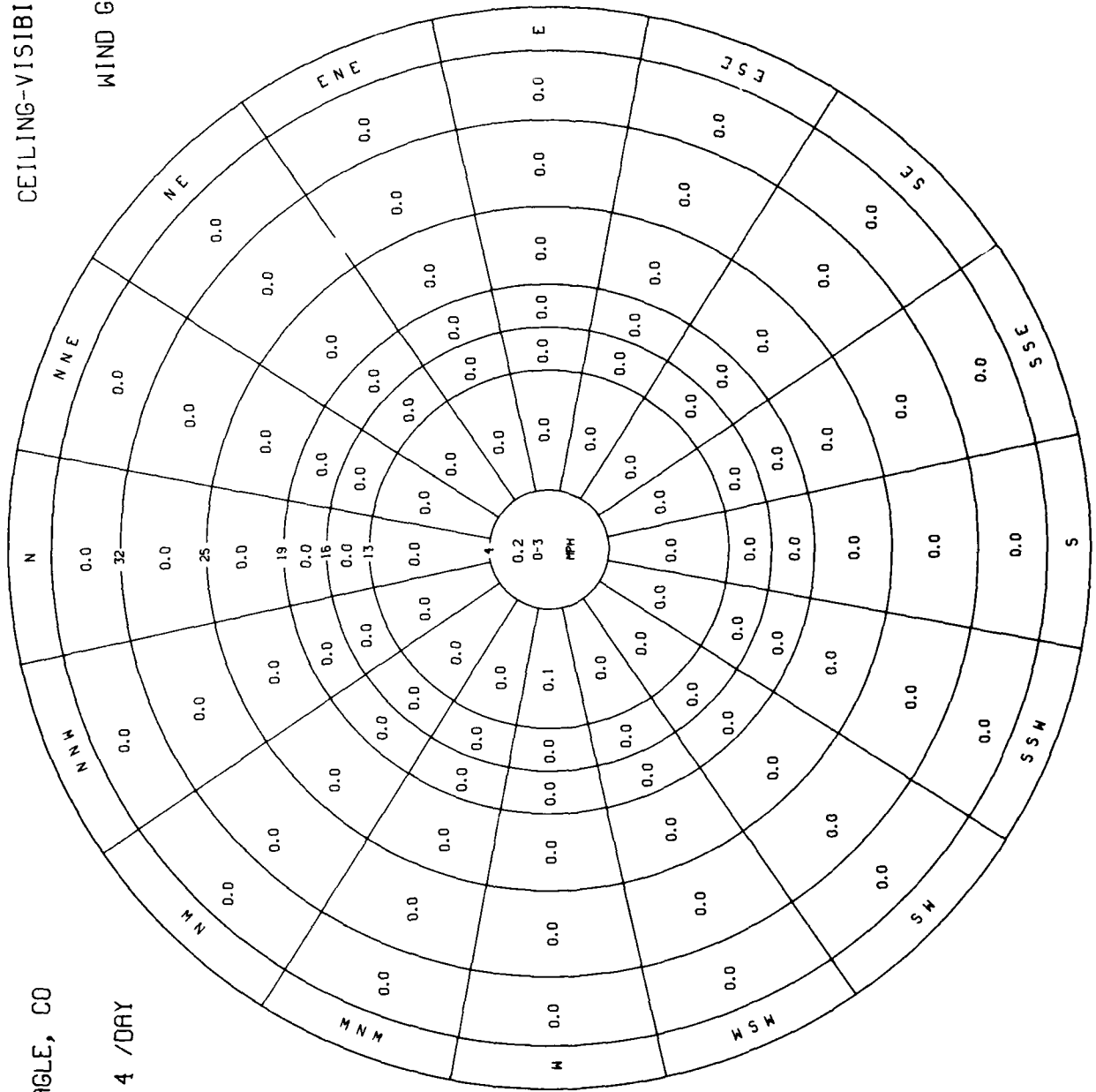
STATION NUMBER: 23063

NO. OBS.: 932

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	5.1
NNE	.0	.1	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	4.9
NE	.0	1.4	.0	2.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.5	5.4
ENE	.0	.5	.1	4.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	5.0	6.8
E	.1	2.8	.2	6.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	9.5	5.7
ESE	.0	.1	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	7.1
SE	.0	.8	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.5
SSE	.0	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	5.1
S	.0	.5	.0	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	8.5
SSW	.0	.2	.0	1.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.1	7.2
SW	.0	1.4	.1	3.0	.0	.5	.0	.1	.0	.2	.0	.0	.0	.0	.1	5.3	7.9
WSW	.0	.8	.1	2.1	.0	.4	.0	.2	.0	.2	.0	.2	.0	.0	.1	4.0	10.2
W	.0	1.5	.2	9.3	.0	.6	.0	.5	.0	.0	.0	.0	.0	.0	.3	12.0	8.0
WNW	.0	.2	.1	2.6	.0	.5	.0	.1	.0	.0	.0	.0	.0	.0	.1	3.4	8.7
NW	.0	.4	.0	.3	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	1.1	8.4
NNW	.0	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	8.6
CALM	1.1	46.0													1.1	46.0	
TOTAL	1.4	57.3	.9	38.1	.1	2.7	.0	1.1	.0	.5	.0	.2	.0	.1	2.4	100	3.9

CEILING-VISIBILITY

WIND GRAPH



EGE EAGLE, CO

CLASS 4 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EGE EAGLE, CO

PERIOD: 1948-1978

CLASS 4 / DAY

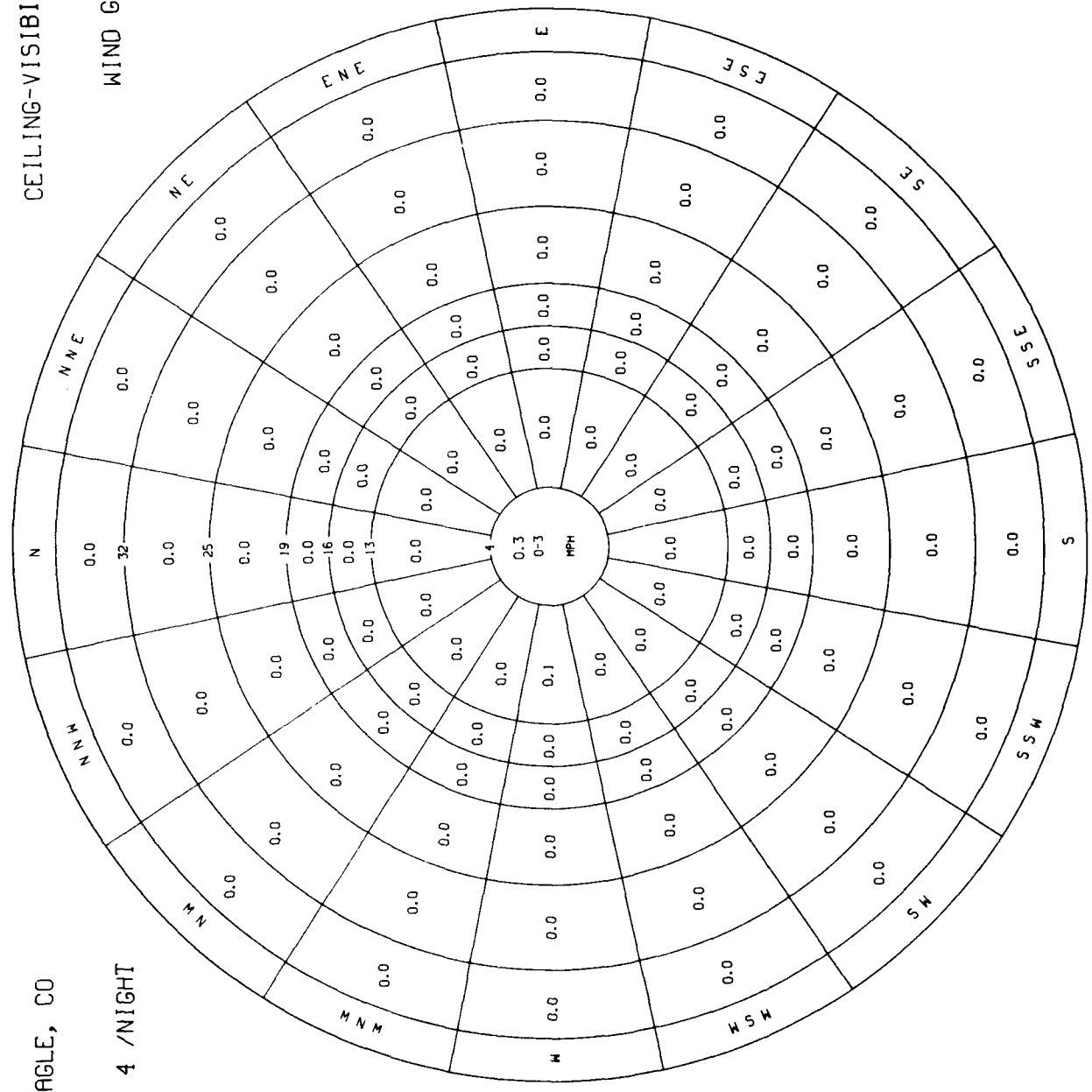
STATION NUMBER: 23063

NO. OBS.: 190

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	1.6	10.7
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.5	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	5.3
ENE	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	6.7
E	.0	1.1	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	5.6
ESE	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	4.5
SE	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	6.7
SSE	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	6.0
S	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	12.0
SSW	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	8.8
SW	.0	1.1	.0	4.7	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	6.8	8.2
WSW	.0	1.1	.0	5.3	.0	1.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	7.9	8.9
W	.0	2.1	.1	14.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	16.8	7.1
WNW	.0	.5	.0	2.6	.0	.5	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	4.7	11.7
NW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	1.6	13.7
NNW	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	12.0
CALM	.2	45.8														.2	45.8	
TOTAL	.2	53.2	.2	41.1	.0	2.1	.0	1.6	.0	2.1	.0	.0	.0	.0	.0	.4	100	4.4

CEILING-VISIBILITY

WIND GRAPH



EGE EAGLE, CO

CLASS 4 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EGE' EAGLE, CO

PERIOD: 1948-1978

CLASS 4 / NIGHT

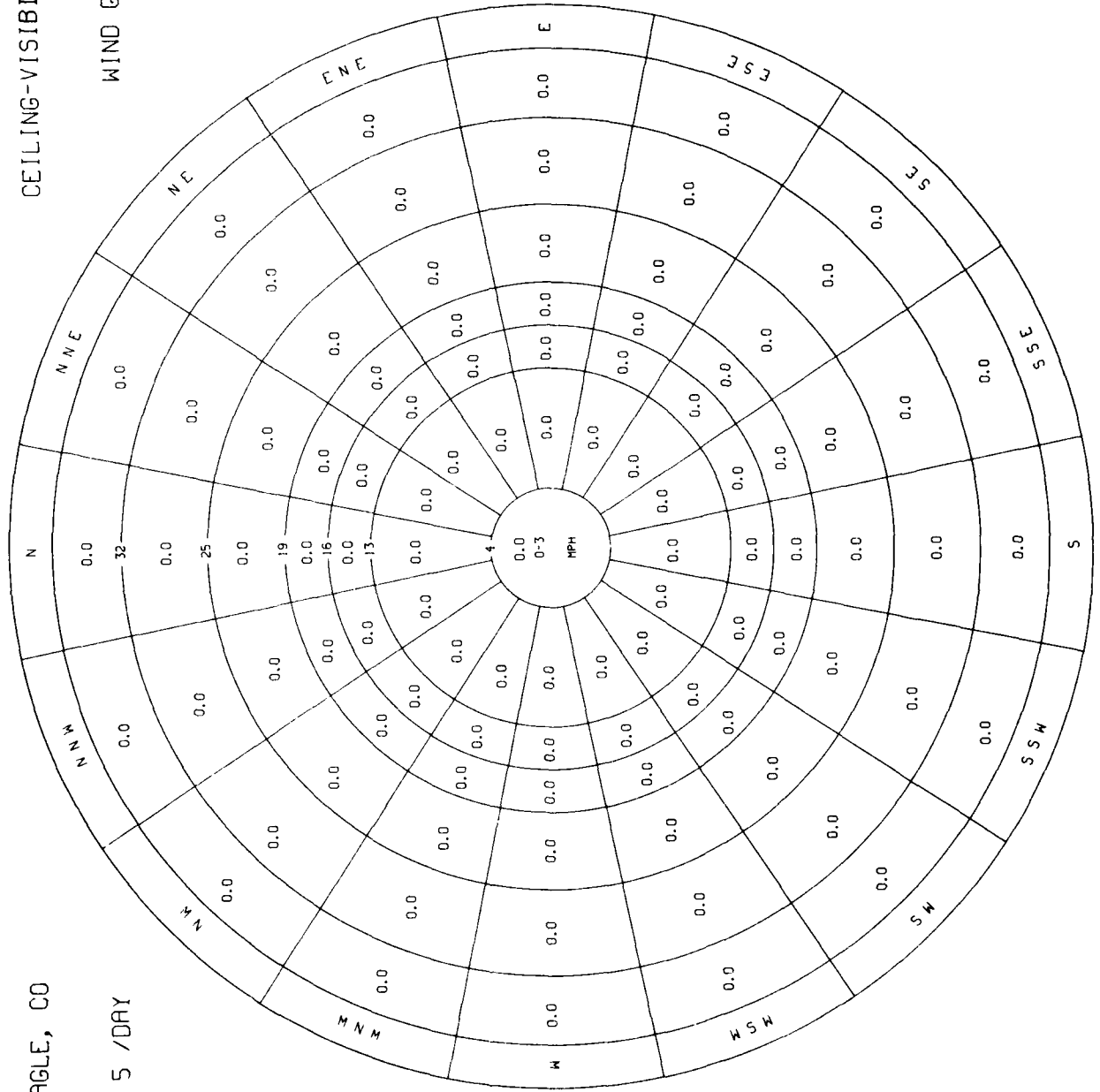
STATION NUMBER: 23063

NO. OBS.: 260

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
NNE	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
NE	.0	.4	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3
ENE	.0	.8	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5
E	.0	2.7	.0	6.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	9.6
ESE	.0	.0	.0	1.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	1.5
SE	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2
SSE	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2
S	.0	.4	.0	.4	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	1.5
SSW	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.8
SW	.0	.8	.0	5.4	.0	1.5	.0	1.2	.0	.0	.0	.4	.0	.1	9.2
WSW	.0	.4	.0	4.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	6.2
W	.0	1.5	.1	10.0	.0	1.2	.0	.4	.0	.0	.0	.0	.0	.1	13.1
WNW	.0	.0	.0	3.5	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	4.6
NW	.0	.4	.0	1.9	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	2.7
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.3	41.9												.3	41.9
TOTAL	.3	50.0	.3	40.4	.0	6.2	.0	2.3	.0	.4	.0	.4	.0	.4	4.7

CEILING-VISIBILITY

WIND GRAPH



EGE EAGLE, CO

CLASS 5 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: EGE EAGLE, CO

CLASS 5 / DAY

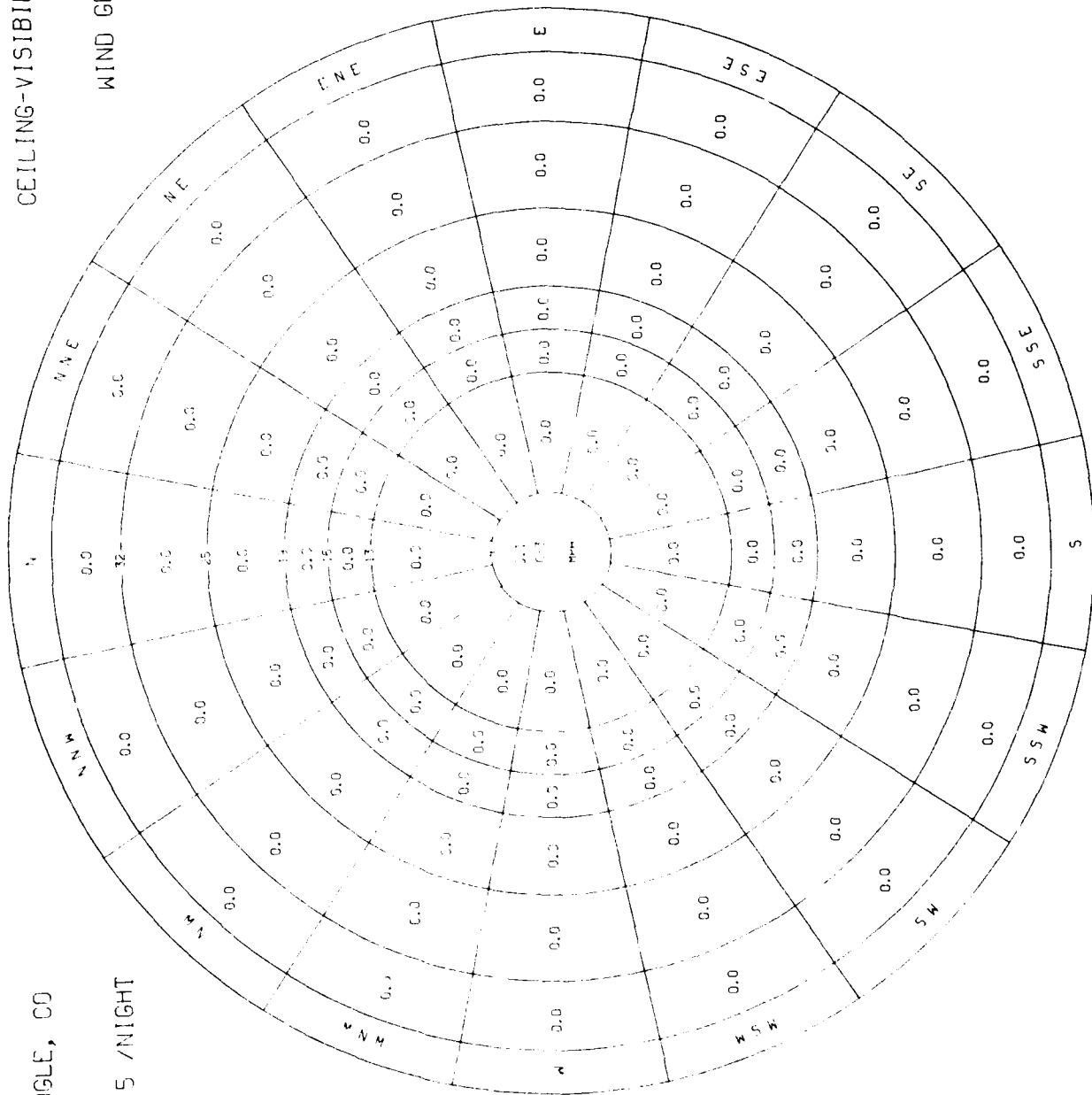
NO. OBS.: 40

STATION NUMBER: 23063

D I R	WIND SPEED, MPH														AVG WIND SPEED	
	0-3		4-12		13-15		16-24		25-31		32+		TOTAL			
	A	B	A	B	A	B	A	B	A	B	A	B	C	D		
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
ESE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	
SE	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	3.0	
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SSW	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	5.0	
SW	.0	.0	.0	2.5	.0	.0	2.5	.0	.0	.0	.0	2.5	.0	7.5	20.3	
WSW	.0	2.5	.0	10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	6.6	
W	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	9.7	
WNW	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	3.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NNW	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	6.0	
CALM	.0	50.0											.0	50.0		
TOTAL	.0	57.5	.0	35.0	.0	25.0	.0	2.5	.0	.0	.0	2.5	.0	11.0	4.2	

CEILING-VISIBILITY

WIND GRAPH



EGE EAGLE, CO

CLASS 5 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: EGE EAGLE, CO

CLASS 5 / NIGHT

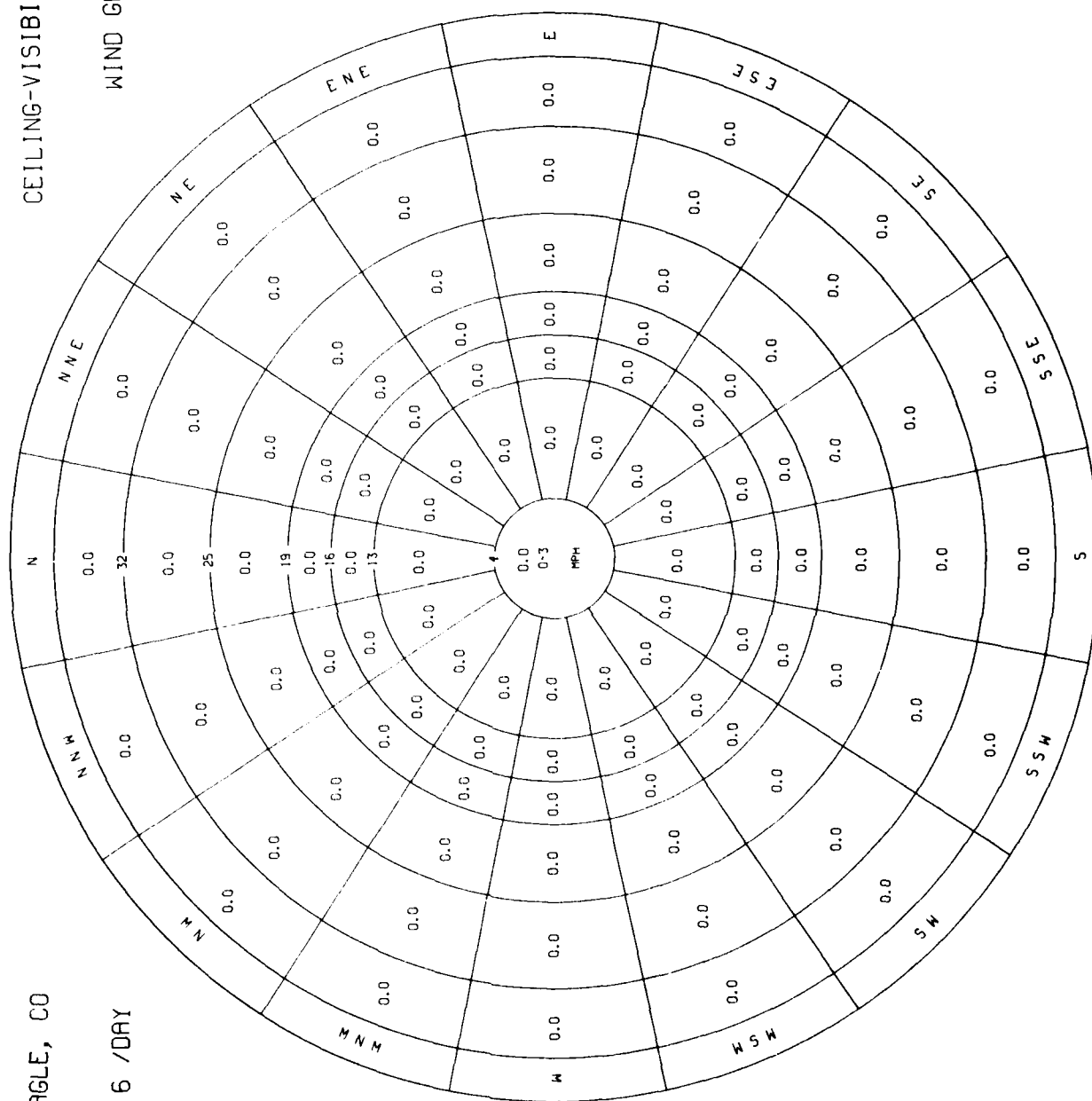
NO. OBS.: 36

STATION NUMBER: 23063

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	5.0
E	.0	2.8	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	4.7
ESE	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	5.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	.0	.0	2.8	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	11.0
SW	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	6.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	5.6	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	8.3	7.3
WNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	14.0
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	66.7													.1	66.7	
TOTAL	.1	75.0	.0	16.7	.0	5.6	.0	2.8	.0	.0	.0	.0	.0	.0	1	100	2.4

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: EGE EAGLE, CO

CLASS 6 / DAY

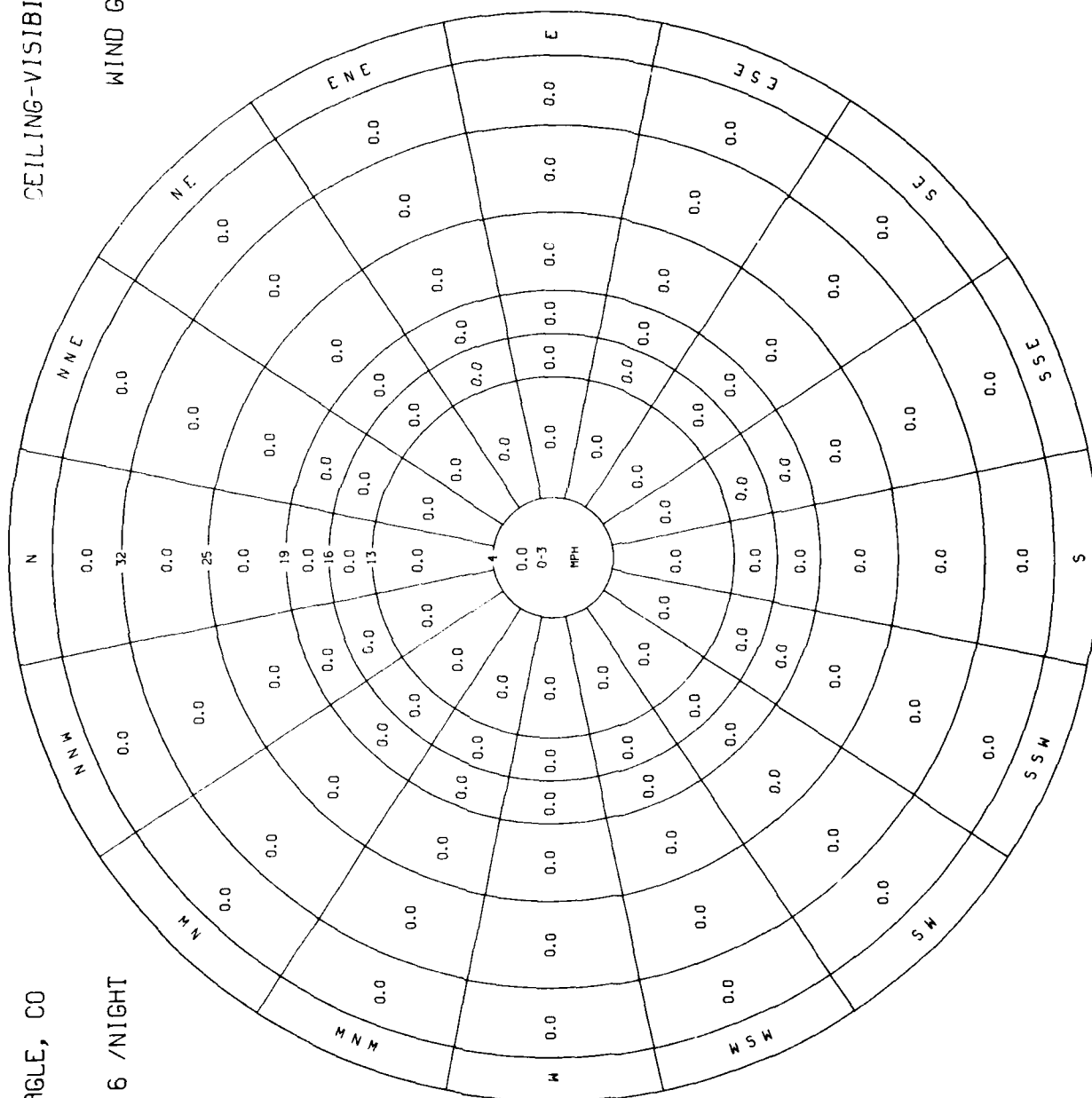
NO. OBS.: 17

STATION NUMBER: 23063

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	C	D		
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	11.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.8	2.5
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	5.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	12.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	.0	.0	5.9	25.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	70.6													.0	70.6
TOTAL	.0	82.4	.0	11.8	.0	.0	.0	.0	.0	.0	.0	5.9	.0	.0	.0	100
																2.8

CEILING-VISIBILITY

WIND GRAPH



EDGE EAGLE, CO

CLASS 6 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EGE EAGLE, CO

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 23063

NO. OBS.: 19

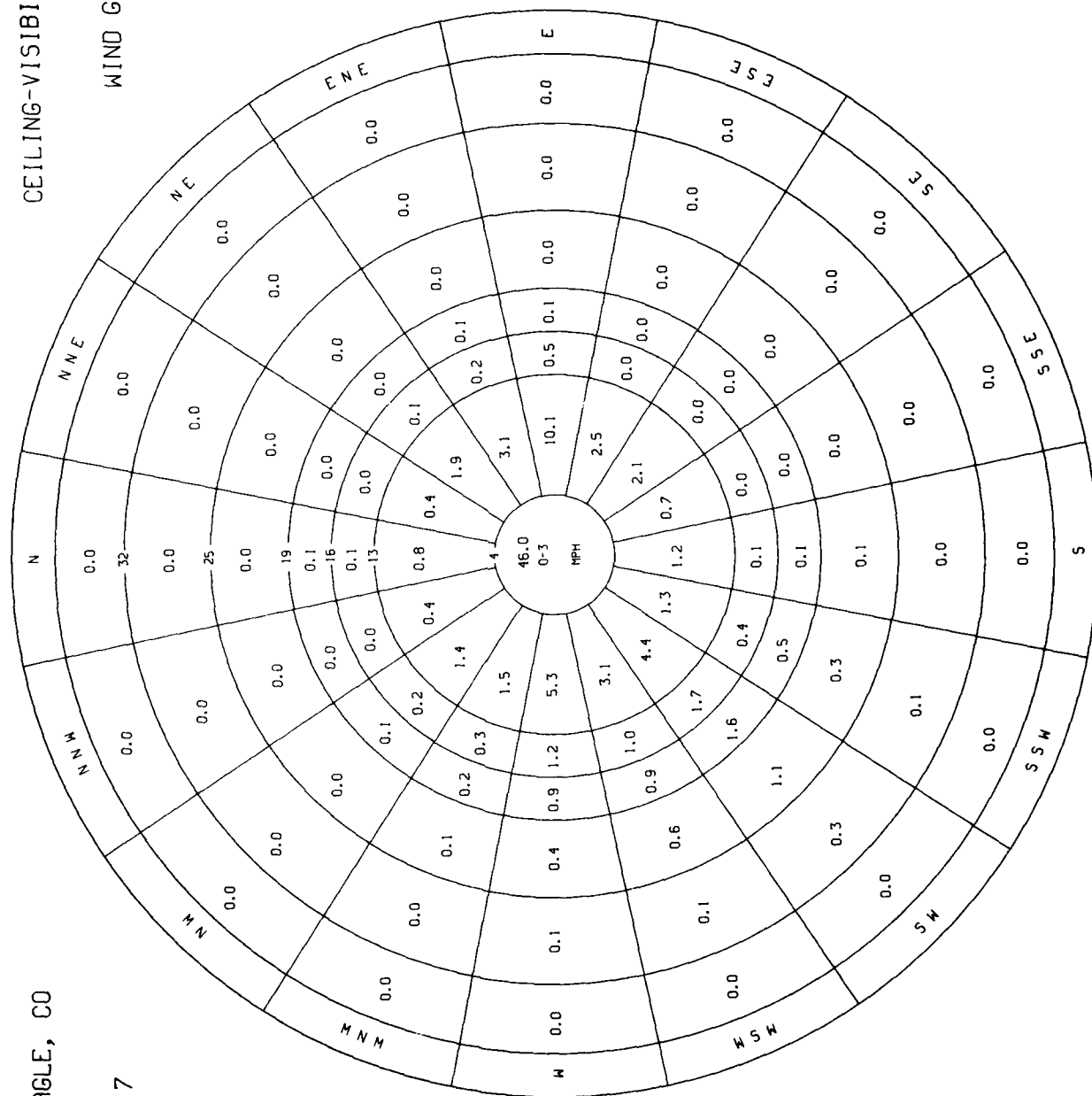
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CEILING-VISIBILITY

WIND GRAPH

EGE EAGLE, CO

CLASS 7

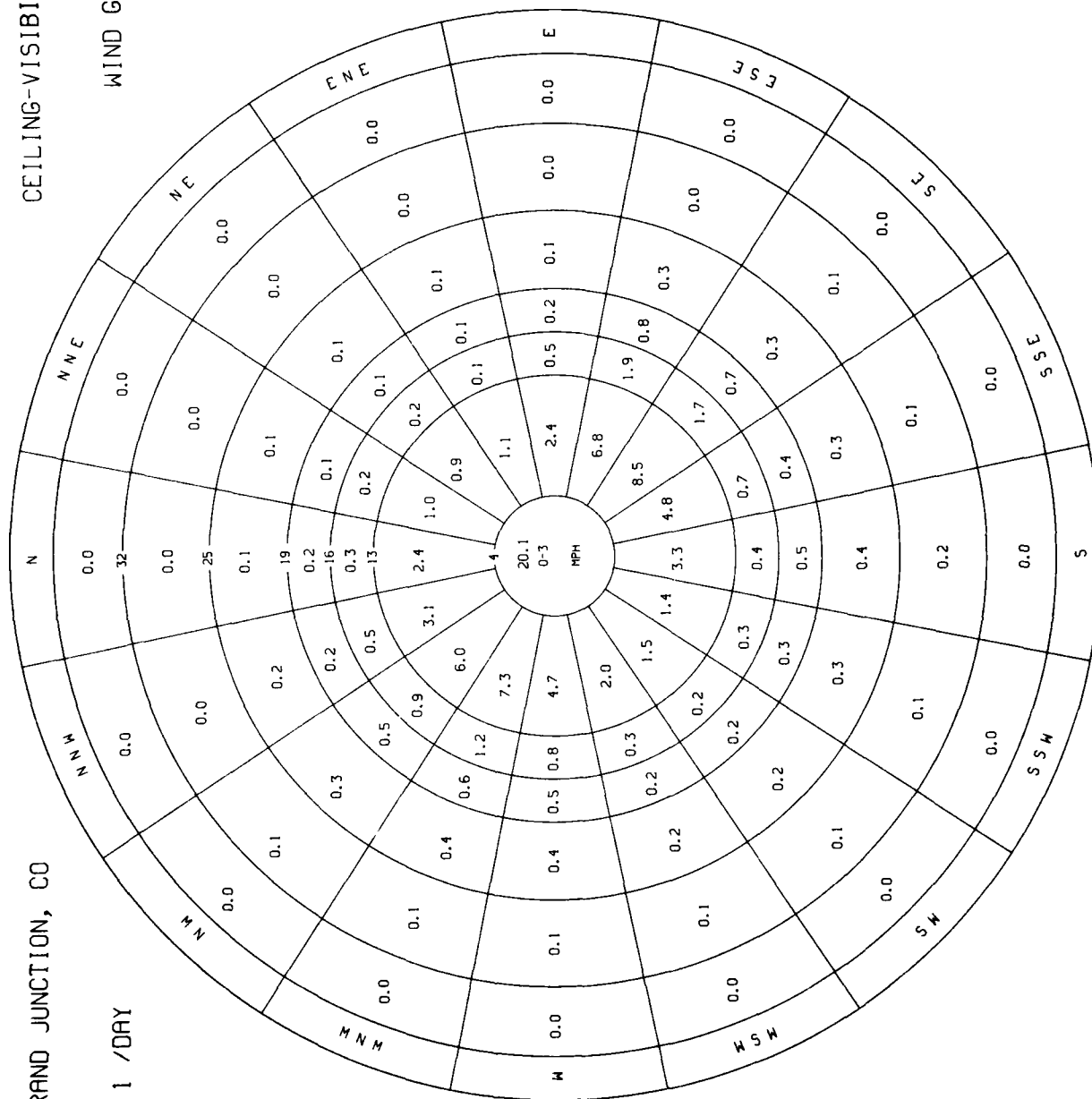


GJT GRAND JUNCTION, CO

WIND GRAPH

CLASS 1 /DAY

CLASS 1 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GJT GRAND JUNCTION, CO

PERIOD: 1948-1978

CLASS 1 / DAY

STATION NUMBER: 23066

NO. OBS.: 50062

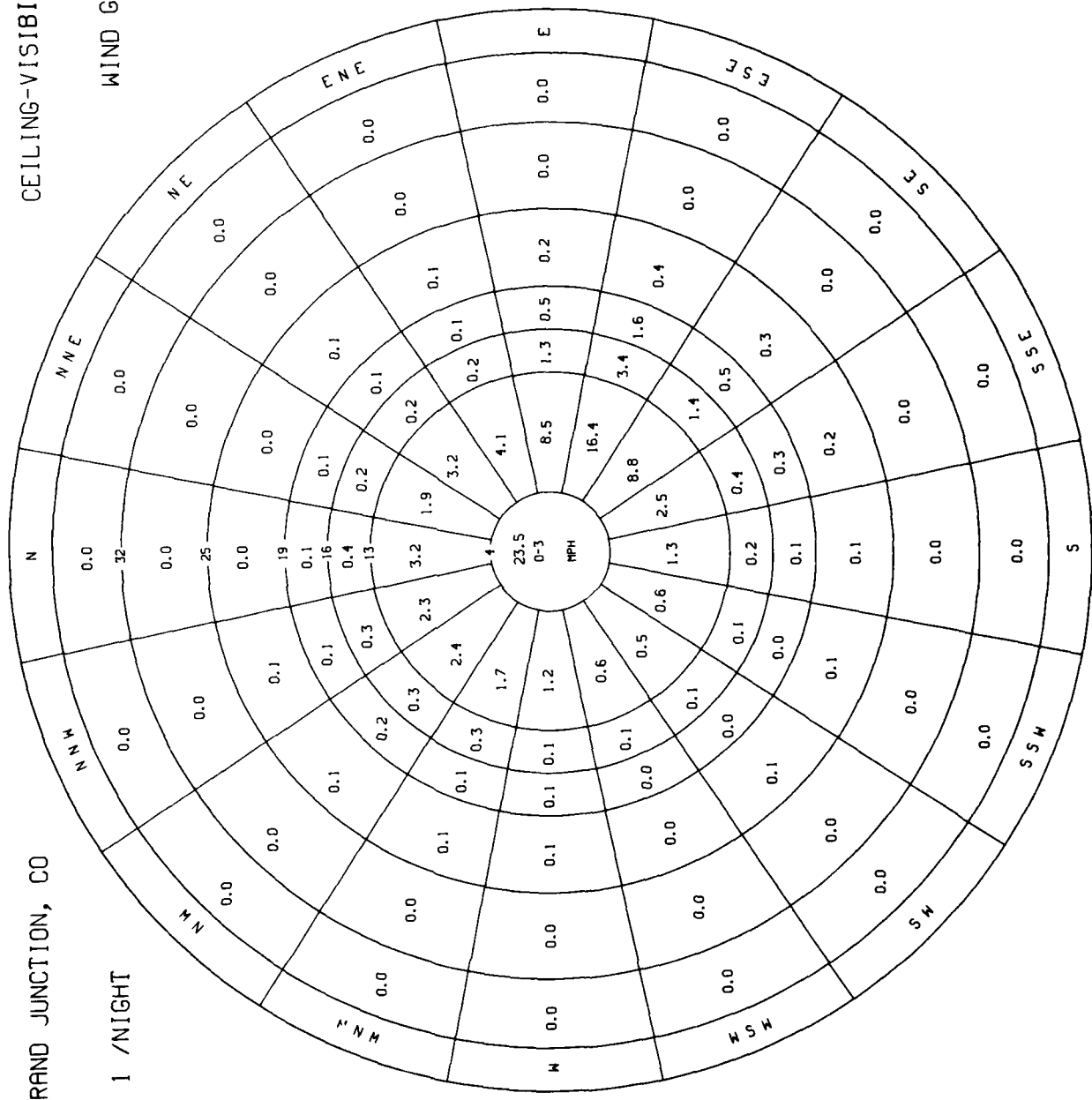
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.9	.9	2.4	2.5	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	3.9	3.9	7.9
NNE	.5	.5	1.0	1.0	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	1.9	1.9	7.9
NE	.6	.6	.9	1.0	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	1.9	1.9	7.6
ENE	.5	.5	1.1	1.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	1.9	1.9	6.9
E	1.1	1.1	2.4	2.5	.5	.5	.2	.3	.1	.1	.0	.0	.0	.0	4.3	4.4	8.0
ESE	1.2	1.2	6.8	7.0	1.9	1.9	.8	.8	.3	.3	.0	.0	.0	.0	11.0	11.2	9.7
SE	1.2	1.2	8.5	8.6	1.7	1.8	.7	.7	.3	.3	.1	.1	.0	.0	12.5	12.7	9.5
SSE	.9	1.0	4.8	4.9	.7	.8	.4	.4	.3	.3	.1	.1	.0	.0	7.4	7.5	9.3
S	1.1	1.1	3.3	3.3	.4	.4	.5	.5	.4	.4	.2	.2	.0	.0	5.8	6.0	9.5
SSW	.7	.7	1.4	1.4	.3	.3	.3	.3	.3	.3	.1	.1	.0	.0	3.1	3.2	10.4
SW	.7	.7	1.5	1.5	.2	.3	.2	.2	.2	.2	.1	.1	.0	.0	2.9	3.0	9.0
WSW	.7	.8	2.0	2.1	.3	.3	.2	.2	.2	.2	.1	.1	.0	.0	3.6	3.6	8.8
W	1.3	1.4	4.7	4.8	.8	.8	.5	.5	.4	.4	.1	.1	.0	.0	7.8	8.0	9.1
WNW	1.3	1.3	7.3	7.4	1.2	1.3	.6	.6	.4	.4	.1	.1	.0	.0	10.9	11.1	9.2
NW	1.4	1.4	6.0	6.1	.9	.9	.5	.6	.3	.3	.1	.1	.0	.0	9.2	9.4	9.1
NNW	.8	.8	3.1	3.2	.5	.5	.2	.2	.2	.2	.0	.0	.0	.0	4.9	4.9	8.7
CALM	5.4	5.5													5.4	5.5	
TOTAL	20.1	20.5	57.4	58.4	10.4	10.6	5.6	5.7	3.7	3.7	.9	.9	.2	.2	98.2	100	8.6

CEILING-VISIBILITY

WIND GRAPH

GJT GRAND JUNCTION, CO

CLASS 1 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: GJT GRAND JUNCTION, CO

CLASS 1 / NIGHT

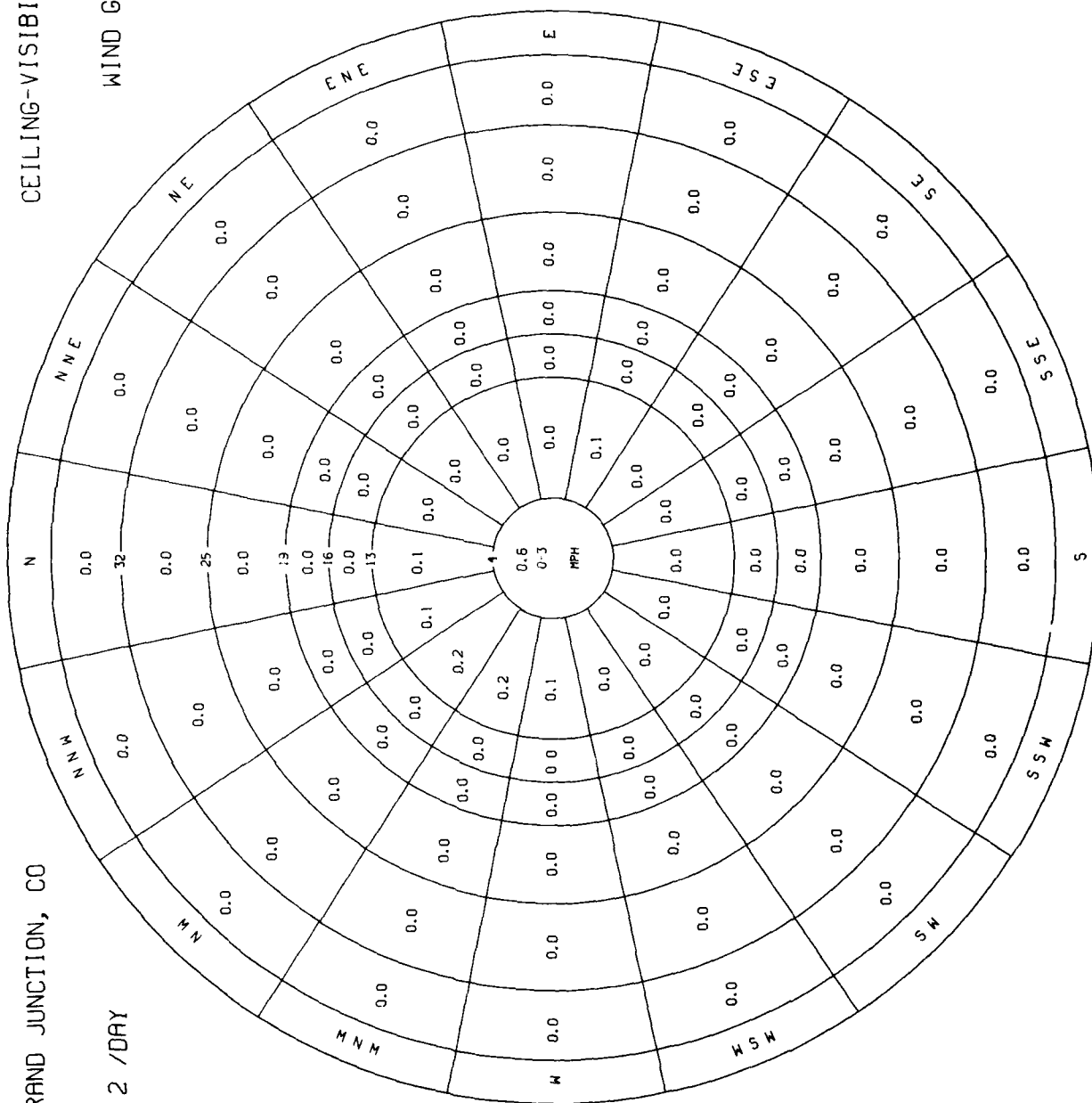
NO. OBS.: 38690

STATION NUMBER: 23066

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.8	.8	3.2	3.3	.4	.4	.1	.1	.0	.0	.0	.0	.0	.0	4.6	4.7	7.6
NNE	.7	.7	1.9	1.9	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.9	3.0	7.2
NE	1.2	1.3	3.2	3.3	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	4.9	5.0	6.9
ENE	1.6	1.7	4.1	4.1	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	6.1	6.2	6.4
E	2.5	2.6	8.5	8.7	1.3	1.3	.5	.5	.2	.2	.0	.0	.0	.0	13.1	13.4	7.9
ESE	2.1	2.1	16.4	16.8	3.4	3.5	1.6	1.7	.4	.4	.0	.0	.0	.0	24.0	24.5	9.5
SE	1.7	1.7	8.8	9.0	1.4	1.4	.5	.5	.3	.3	.0	.0	.0	.0	12.6	12.9	8.7
SSE	.7	.7	2.5	2.6	.4	.4	.3	.3	.2	.2	.0	.0	.0	.0	4.1	4.2	8.7
S	.8	.8	1.3	1.3	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	2.5	2.5	7.5
SSW	.4	.4	.6	.6	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	1.2	1.2	7.5
SW	.4	.4	.5	.5	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	1.0	1.1	6.6
WSW	.4	.4	.6	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	6.4
W	.7	.8	1.2	1.2	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	2.2	2.3	7.0
WNW	.7	.8	1.7	1.8	.3	.3	.1	.1	.1	.1	.0	.0	.0	.0	3.0	3.0	7.8
NW	.8	.8	2.4	2.4	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	3.8	3.9	8.0
NNW	.7	.7	2.3	2.4	.3	.3	.1	.1	.1	.1	.0	.0	.0	.0	3.6	3.6	8.0
CALM	7.1	7.3													7.1	7.3	
TOTAL	23.5	24.0	59.2	60.6	8.8	9.0	4.1	4.2	1.9	1.9	.3	.3	.1	.1	97.8	100	7.6

CEILING-VISIBILITY

WIND GRAPH



GJT GRAND JUNCTION, CO

CLASS 2 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GJT GRAND JUNCTION, CO

PERIOD: 1948-1978

CLASS 2 / DAY

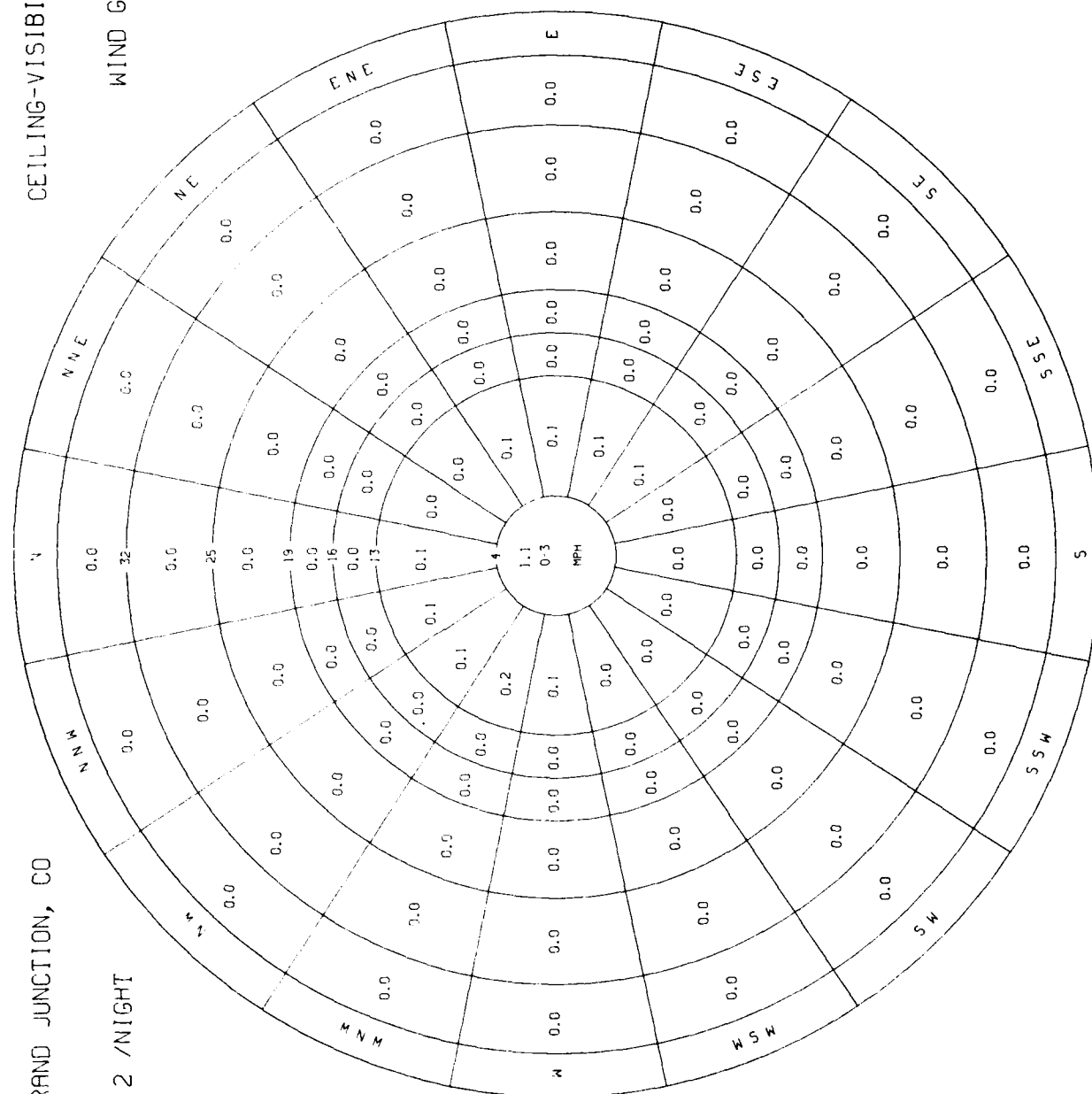
NO. OBS.: 924

STATION NUMBER: 23066

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.4	.1	5.1	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.1 6.3
NNE	.0	.9	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.8
NE	.0	.8	.0	.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.9
ENE	.0	.6	.0	1.5	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0 2.4
E	.0	1.6	.0	1.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 3.4
ESE	.0	1.1	.1	3.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 5.0
SE	.0	1.9	.0	2.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1 4.2
SSE	.0	.5	.0	1.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
S	.0	1.2	.0	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.0 2.3
SSW	.0	.8	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0 2.4
SW	.0	.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
WSW	.0	1.5	.0	1.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 2.8
W	.0	2.2	.1	4.1	.0	.5	.0	.3	.0	.6	.0	.0	.0	.0	.1 7.8
WNW	.1	2.9	.2	11.0	.0	1.3	.0	.8	.0	.6	.0	.4	.0	.0	.3 17.1
NW	.0	2.7	.2	10.8	.0	2.2	.0	1.0	.0	.8	.0	.1	.0	.0	.3 17.5
NNW	.0	1.1	.1	4.3	.0	1.7	.0	.2	.0	.0	.0	.0	.0	.0	.1 7.4
CALM	.3	14.3													.3 14.3
TOTAL	.6	35.1	.9	51.6	.1	7.7	.0	2.6	.0	2.2	.0	.8	.0	.1	1.8 100
															6.5

GUT GRAND JUNCTION, CO

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: GJT GRAND JUNCTION, CO

CLASS 2 / NIGHT

NO. OBS.: 889

STATION NUMBER: 23066

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.2	.1	3.0	.0	.3	.0	.0	.0	.1	.0	.0	.0	.0	.1 4.7
NNE	.0	1.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 2.8
NE	.0	2.0	.0	1.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 3.7
ENE	.0	1.8	.1	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 4.6
E	.0	1.9	.1	2.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 4.5
ESE	.1	4.2	.1	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2 8.5
SE	.0	1.5	.1	3.3	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1 4.9
SSE	.0	1.0	.0	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.0
S	.0	.8	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.8
SSW	.0	1.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.8
SW	.0	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.0
WSW	.0	1.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.1
W	.0	1.5	.1	3.5	.0	.1	.0	.3	.0	.1	.0	.0	.0	.0	.1 5.5
WNW	.1	3.5	.2	6.9	.0	1.2	.0	.2	.0	.0	.0	.0	.0	.0	.3 11.8
NW	.1	3.6	.1	6.5	.0	.6	.0	.9	.0	.3	.0	.0	.0	.0	.3 11.9
NNW	.0	1.9	.1	4.5	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.2 7.1
CALM	.5	21.0													.5 21.0
TOTAL	1.1	50.7	1.0	43.8	.1	3.1	.0	1.8	.0	.6	.0	.0	.0	.0	2.2 100

4.6

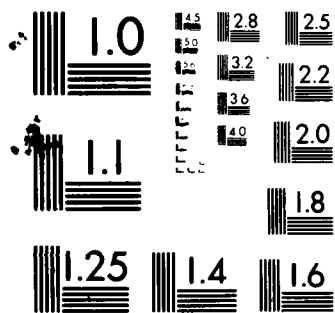
F/G 4/2

DOT-FA79WAI-057

NL

25

A 10x10 grid of squares. The top-left corner contains a small cluster of white squares, including the top-left square and a few adjacent ones. The rest of the grid is black.



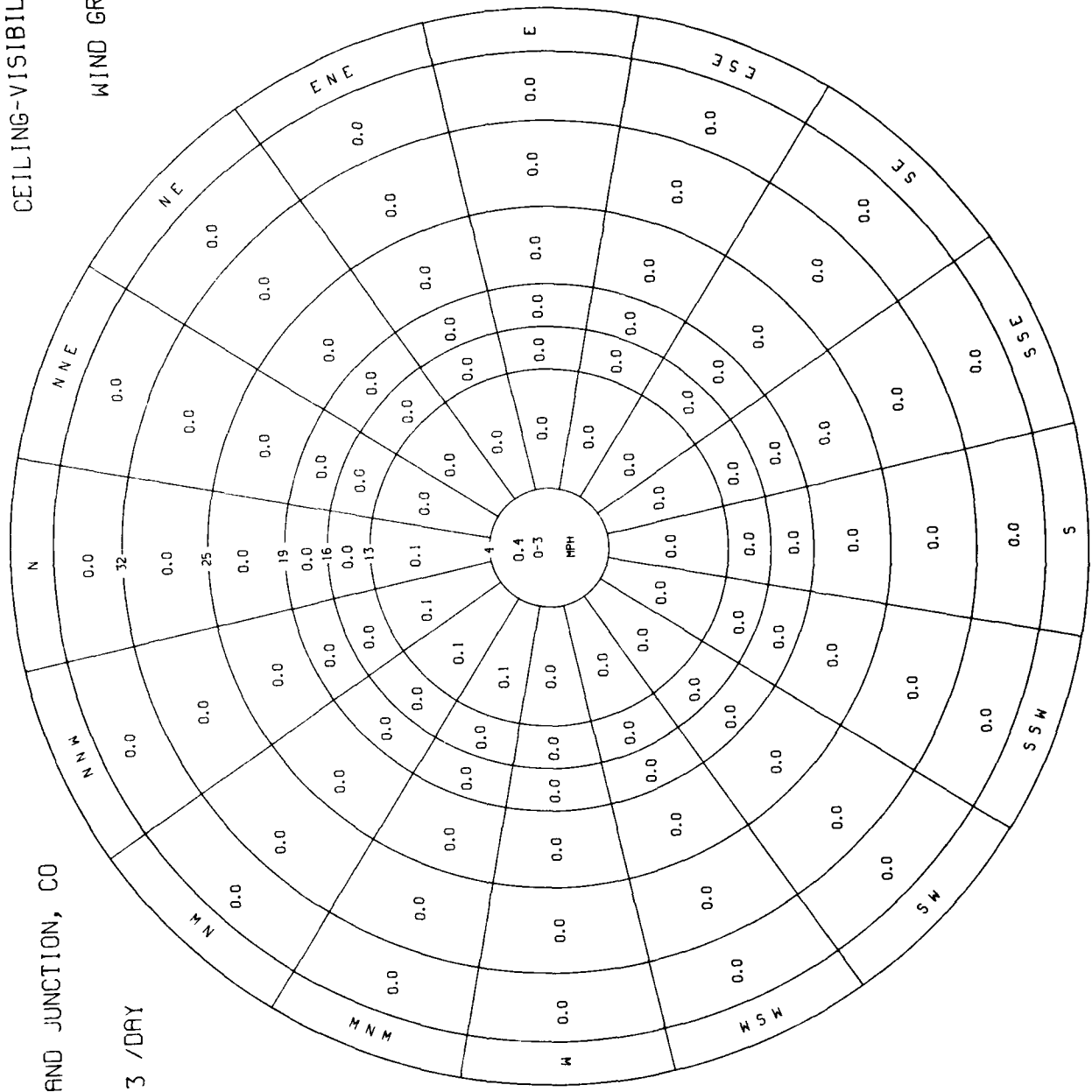
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

CEILING-VISIBILITY

WIND GRAPH

GJT GRAND JUNCTION, CO

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GJT GRAND JUNCTION, CO

PERIOD: 1948-1978

CLASS 3 / DAY

STATION NUMBER: 23066

NO. OBS.: 639

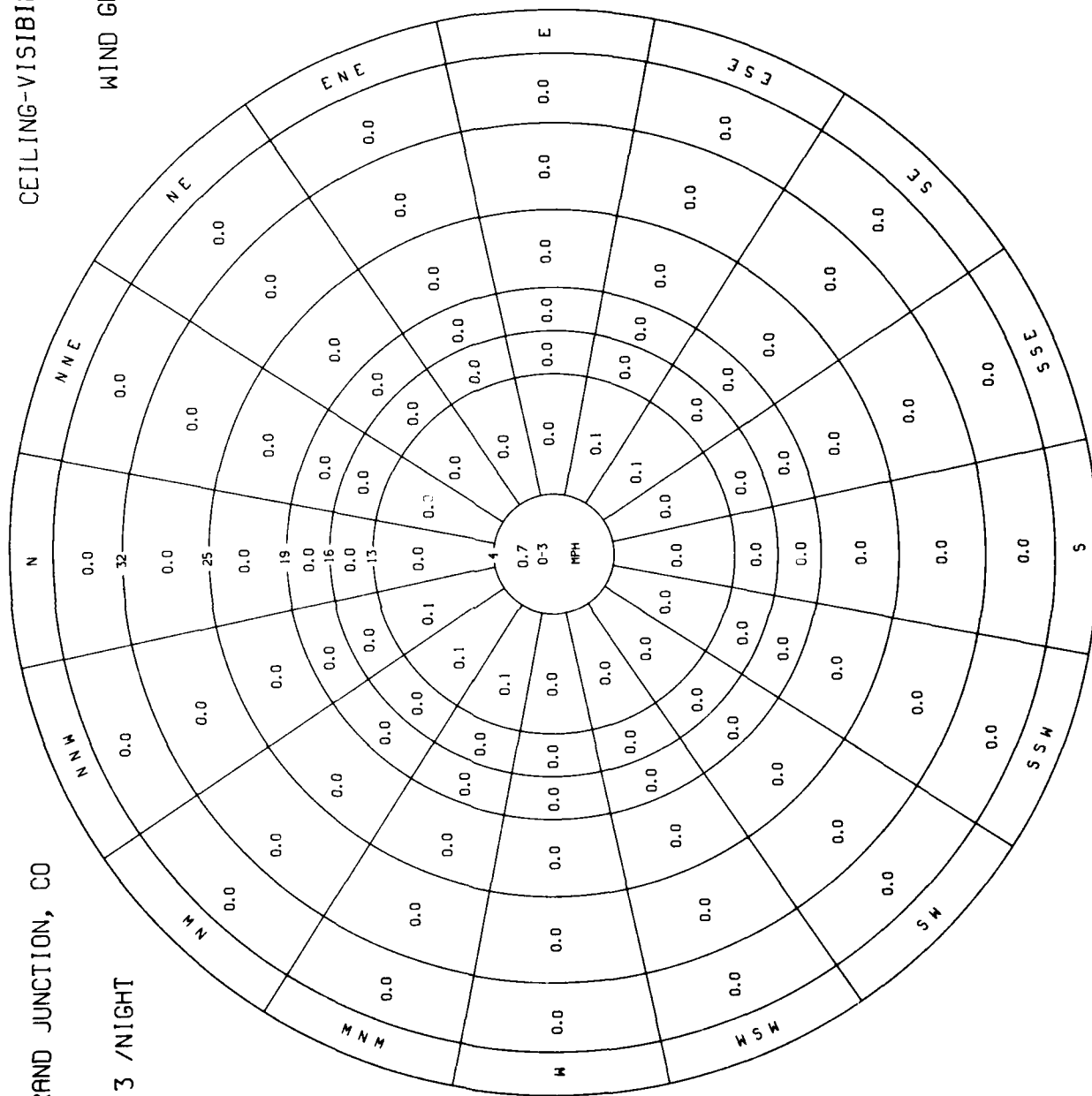
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.3	.1	5.5	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	6.7	8.6
NNE	.0	.6	.0	.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	7.0
NE	.0	.9	.0	1.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	6.9
ENE	.0	.6	.0	1.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	5.8
E	.0	1.1	.0	2.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	5.9
ESE	.0	.8	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.4	6.7
SE	.0	1.6	.0	2.2	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	4.1	6.1
SSE	.0	.3	.0	1.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	7.2
S	.0	1.1	.0	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	6.8
SSW	.0	1.1	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	2.8	7.1
SW	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	4.0
WSW	.0	1.1	.0	1.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	5.2
W	.0	2.3	.0	3.8	.0	.5	.0	.2	.0	.5	.0	.0	.0	.0	.0	.1	7.2	6.9
WNW	.0	2.8	.1	11.3	.0	1.6	.0	1.1	.0	.9	.0	.5	.0	.0	.0	.2	18.2	9.2
NW	.0	2.8	.1	11.4	.0	2.5	.0	1.4	.0	.9	.0	.0	.0	.0	.0	.2	19.1	9.1
NNW	.0	.5	.1	5.5	.0	2.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	8.3	9.6
CALM	.1	11.0														.1	11.0	
TOTAL	.4	29.6	.7	54.6	.1	9.1	.0	3.4	.0	2.3	.0	.8	.0	.2	.0	1.3	100	7.1

CEILING-VISIBILITY

WIND GRAPH

GJT GRAND JUNCTION, CO

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: GJT GRAND JUNCTION, CO

CLASS 3 / NIGHT

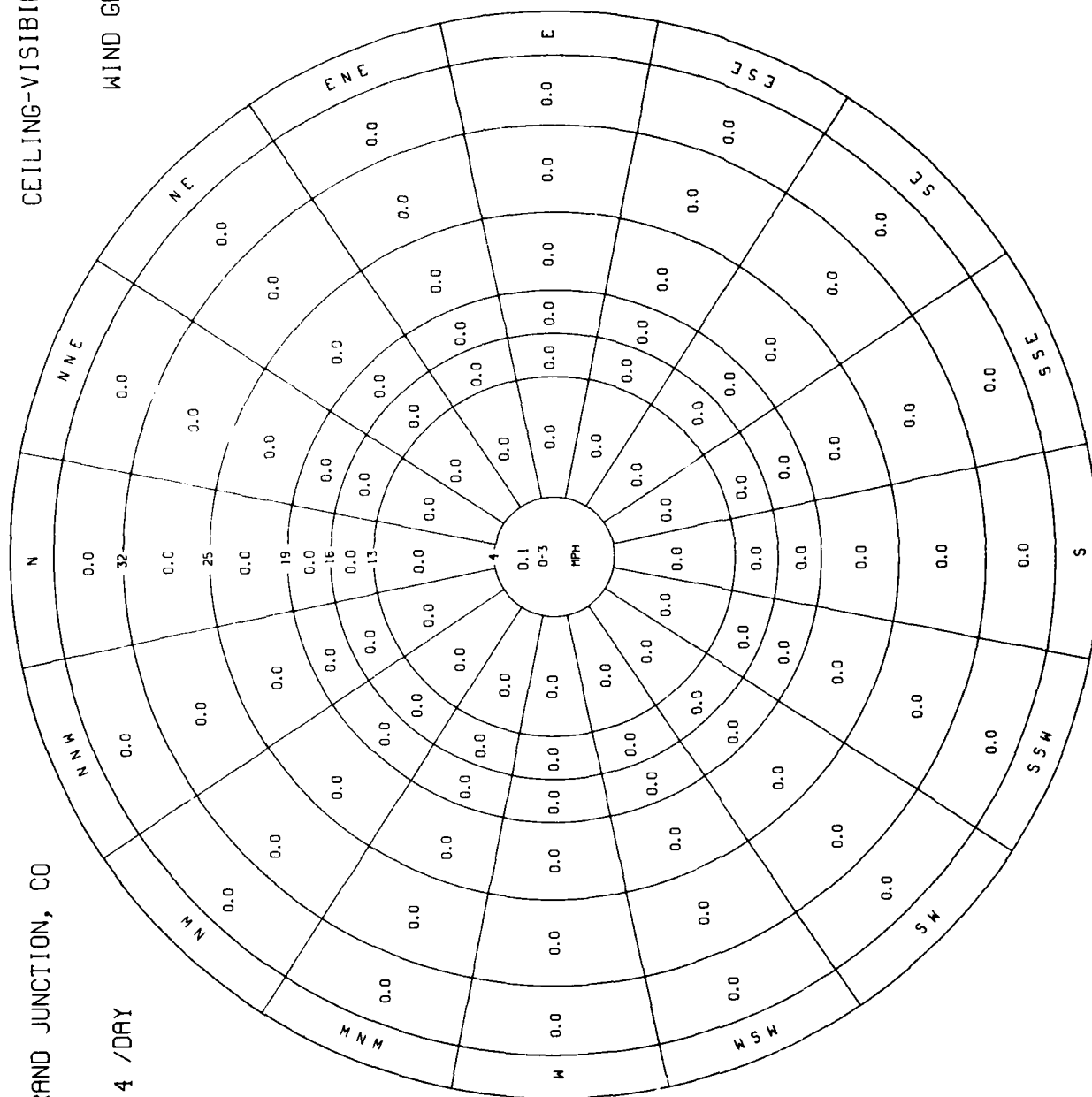
NO. OBS.: 545

STATION NUMBER: 23066

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.9	.0	3.3	.0	.4	.0	.0	.0	.2	.0	.0	.0	.0	.1 4.8
NNE	.0	1.8	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.5
NE	.0	2.4	.0	2.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1 4.6
ENE	.0	1.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 4.2
E	.0	1.5	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 4.0
ESE	.1	3.9	.1	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 8.8
SE	.0	2.0	.1	3.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1 5.9
SSE	.0	.4	.0	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.1
S	.0	.4	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.5
SSW	.0	.4	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.5
SW	.0	.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .9
WSW	.0	1.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7
W	.0	.9	.0	3.1	.0	.2	.0	.6	.0	.0	.0	.0	.0	.0	.1 4.8
WNW	.1	3.7	.1	6.4	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.2 11.4
NW	.0	3.3	.1	7.7	.0	.6	.0	.7	.0	.4	.0	.0	.0	.0	.2 12.7
NNW	.0	2.0	.1	5.1	.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	.1 8.1
CALM	.3	20.7													.3 20.7
TOTAL	.7	47.7	.6	46.6	.1	3.7	.0	1.5	.0	.6	.0	.0	.0	.0	1.4 100 4.8

GJT GRAND JUNCTION, CO

CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GJT GRAND JUNCTION, CO

PERIOD: 1948-1978

CLASS 4 / DAY

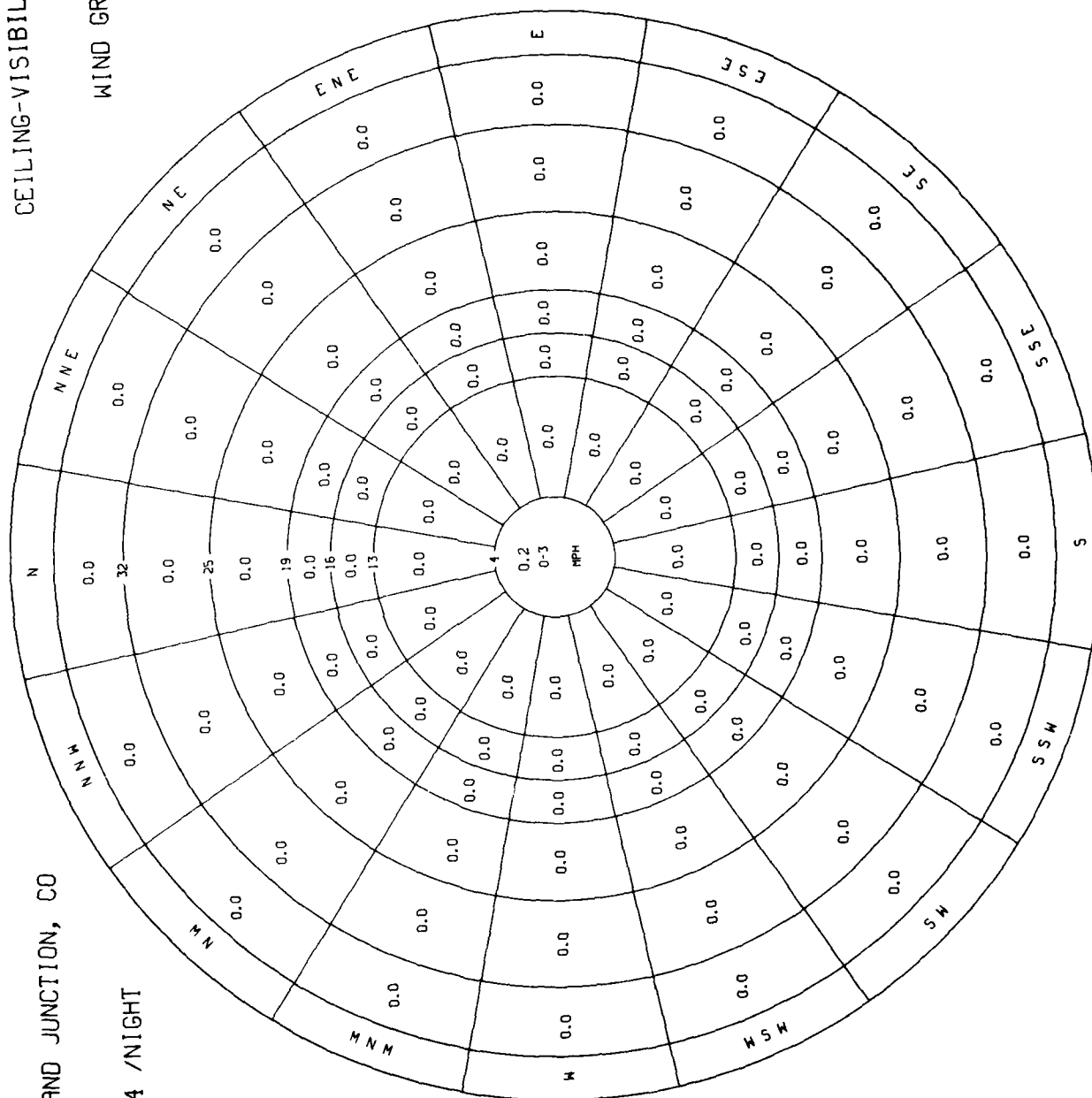
STATION NUMBER: 23066

NO. OBS.: 165

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.6	.0	3.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	8.2
NNE	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.5
NE	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	7.0
ENE	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	1.8	8.0
E	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.5
ESE	.0	.0	.0	3.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	7.4
SE	.0	.6	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	6.0
SSE	.0	1.2	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	4.9
S	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	2.0
SSW	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	6.0
SW	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	7.5
WSW	.0	2.4	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	4.1
W	.0	1.2	.0	5.5	.0	1.2	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	10.3	10.8
WNW	.0	3.0	.0	15.2	.0	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	19.4	7.6
NW	.0	1.2	.0	12.7	.0	1.8	.0	.0	.0	.6	.0	.6	.0	.0	.0	17.0	9.7
NNW	.0	3.0	.0	3.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	5.9
CALM	.1	17.6													.1	17.6	
TOTAL	.1	35.2	.2	53.9	.0	6.1	.0	1.2	.0	2.4	.0	1.2	.0	.0	.3	100	6.3

CEILING-VISIBILITY

WIND GRAPH



GJT GRAND JUNCTION, CO

CLASS 4 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: GJT GRAND JUNCTION, CO

CLASS 4 / NIGHT

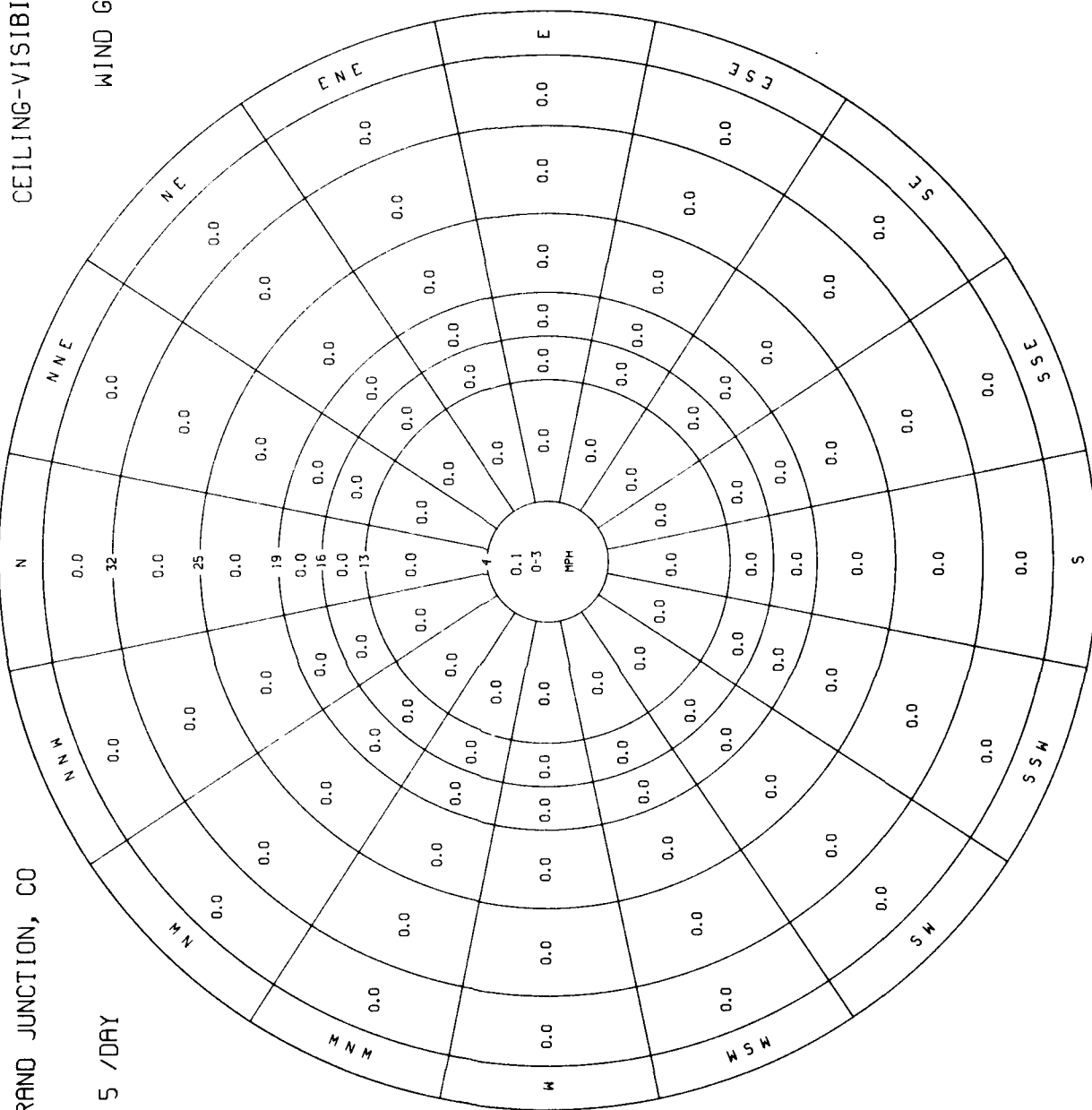
NO. OBS.: 174

STATION NUMBER: 23066

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.1	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	4.3
NNE	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.0
NE	.0	2.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	3.4
ENE	.0	1.7	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	5.5
E	.0	2.9	.0	3.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9	5.2
ESE	.0	4.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9	4.8
SE	.0	.6	.0	1.7	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	2.9	8.2
SSE	.0	1.7	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	5.2
S	.0	1.1	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	5.0
SSW	.0	3.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	3.0
SW	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	1.0
WSW	.0	2.9	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	2.7
W	.0	2.3	.0	6.3	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	9.2	6.9
WNW	.0	3.4	.0	8.6	.0	1.7	.0	1.1	.0	.0	.0	.0	.0	.0	.1	14.9	7.4
NW	.0	2.9	.0	4.0	.0	.6	.0	2.3	.0	.0	.0	.0	.0	.0	.0	9.8	8.3
NNW	.0	1.7	.0	3.4	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	5.7	6.8
CALM	.1	17.2													.1	17.2	
TOTAL	.2	50.6	.2	41.4	.0	2.9	.0	4.6	.0	.6	.0	.0	.0	.0	.4	100	4.9

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GJT GRAND JUNCTION, CO

PERIOD: 1948-1978

CLASS 5 / DAY

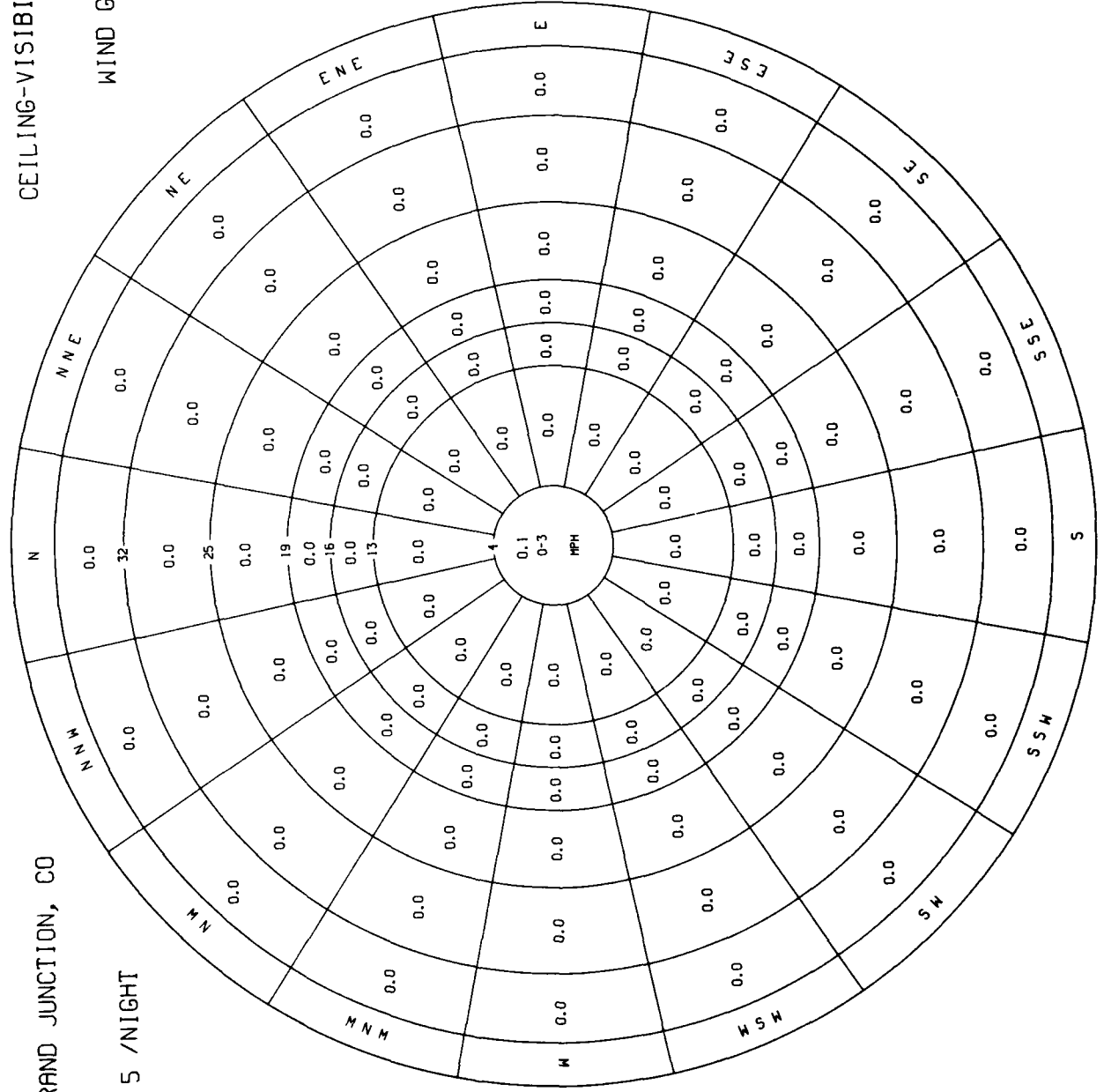
STATION NUMBER: 23066

NO. OBS.: 66

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	6.3
NNE	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	2.0
NE	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	2.0
ENE	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	7.0
E	.0	6.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	2.5
ESE	.0	3.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	5.8
SE	.0	6.1	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	4.0
SSE	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	3.0
S	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	2.3
SSW	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	6.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	1.0
W	.0	1.5	.0	3.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	6.1	10.0
WNW	.0	3.0	.0	4.5	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	6.0
NW	.0	6.1	.0	4.5	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.1	5.0
NNW	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	13.0
CALM	.0	24.2													.0	24.2	
TOTAL	.1	63.6	.0	30.3	.0	4.5	.0	.0	.0	1.5	.0	.0	.0	.0	.0	1	100
																	3.9

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: GJT GRAND JUNCTION, CO

CLASS 5 / NIGHT

NO. OBS.: 64

STATION NUMBER: 23066

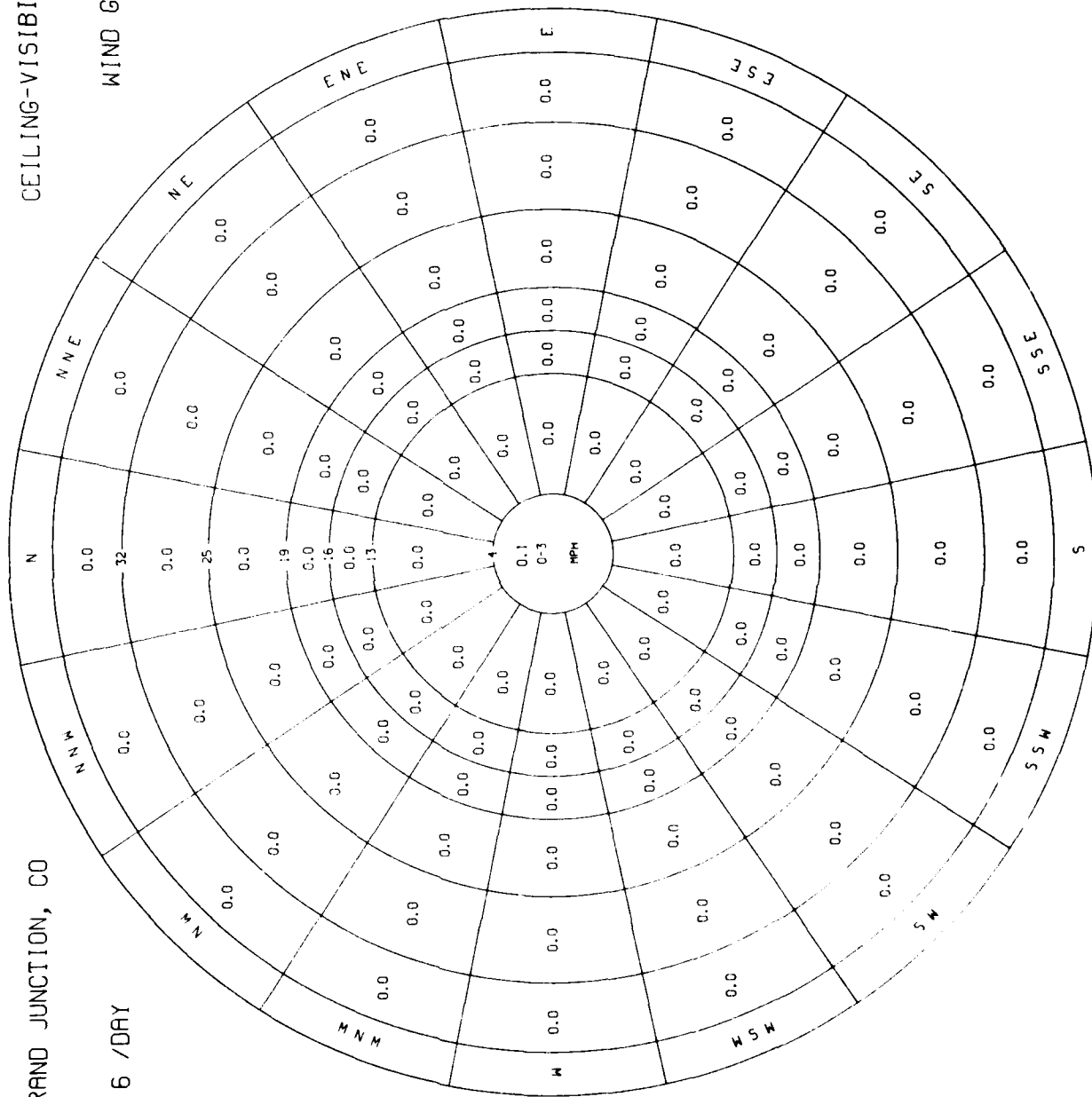
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	4.7	.0	6.3	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	6.0
NNE	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	5.0
N E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	1.6	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	4.7
E	.0	3.1	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	3.3
ESE	.0	1.6	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	5.0
SE	.0	1.6	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	5.3
SSE	.0	1.6	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	5.0
S	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	2.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	4.0
WSW	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	3.5
W	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	4.0
WNW	.0	3.1	.0	7.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.9	5.3
NW	.0	6.3	.0	9.4	.0	1.6	.0	.0	.0	1.6	.0	.0	.0	.0	.0	18.8	7.6
NNW	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	6.0
CALM	.0	15.6													.0	15.6	
TOTAL	.1	45.3	.1	50.0	.0	3.1	.0	.0	.0	1.6	.0	.0	.0	.0	.2	100	4.6

CEILING-VISIBILITY

WIND GRAPH

GJT GRAND JUNCTION, CO

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GJT GRAND JUNCTION, CO

PERIOD: 1948-1978

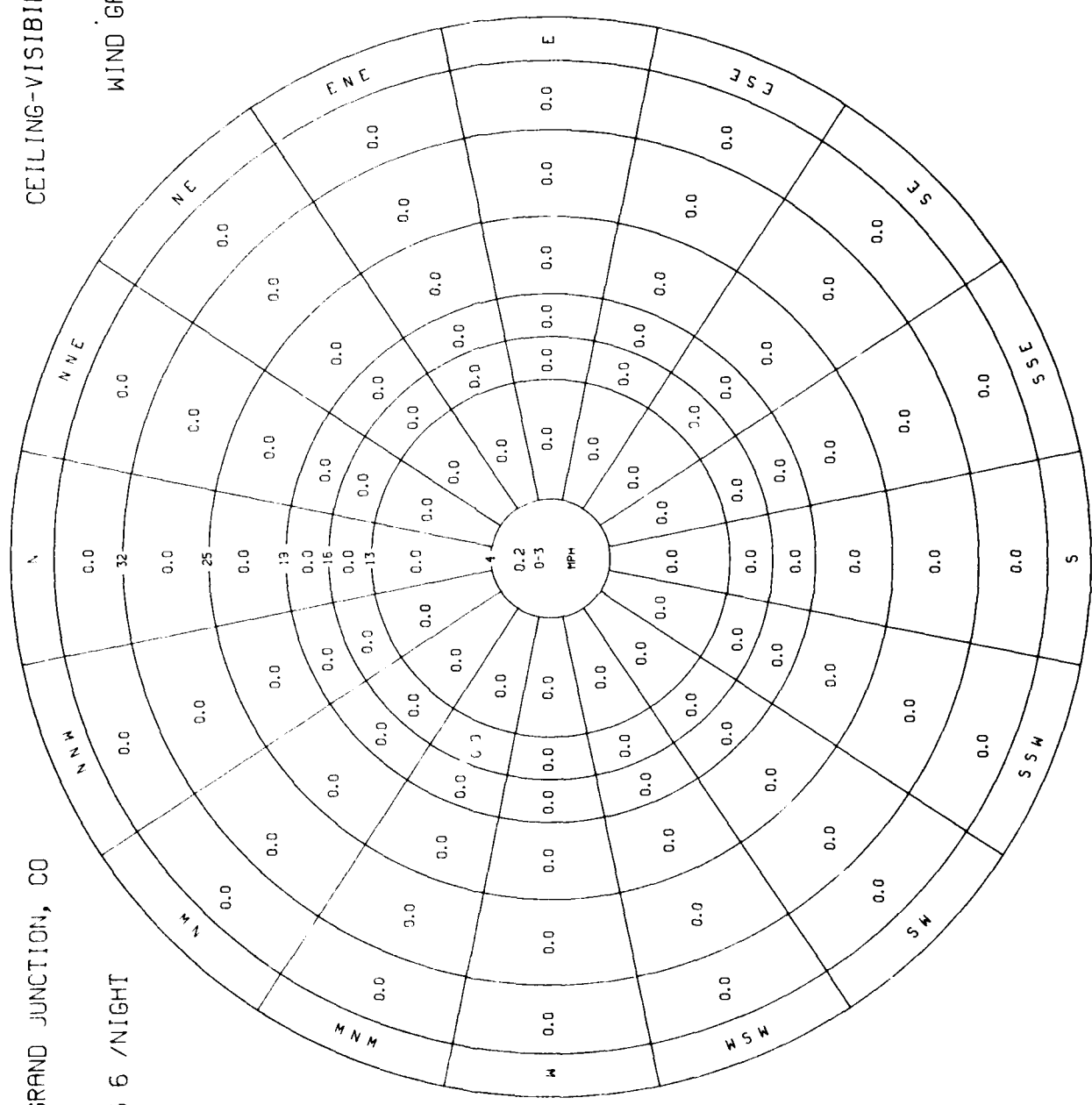
CLASS 6 / DAY

STATION NUMBER: 23066

NO. OBS.: 54

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	1.9	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	4.7
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	6.5
E	.0	3.7	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	4.2
ESE	.0	5.6	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	4.2
SE	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	2.3
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	5.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	2.0
WSW	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	1.0
W	.0	3.7	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.3	4.4
WNW	.0	3.7	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	3.5
NW	.0	1.9	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	6.7
NNW	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	2.0
CALM	.0	31.5														.0	31.5	
TOTAL	.1	64.8	.0	35.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	100	2.9

GJT GRAND JUNCTION, CO
 CLASS 6 /NIGHT
 CEILING-VISIBILITY
 WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: GJT GRAND JUNCTION, CO

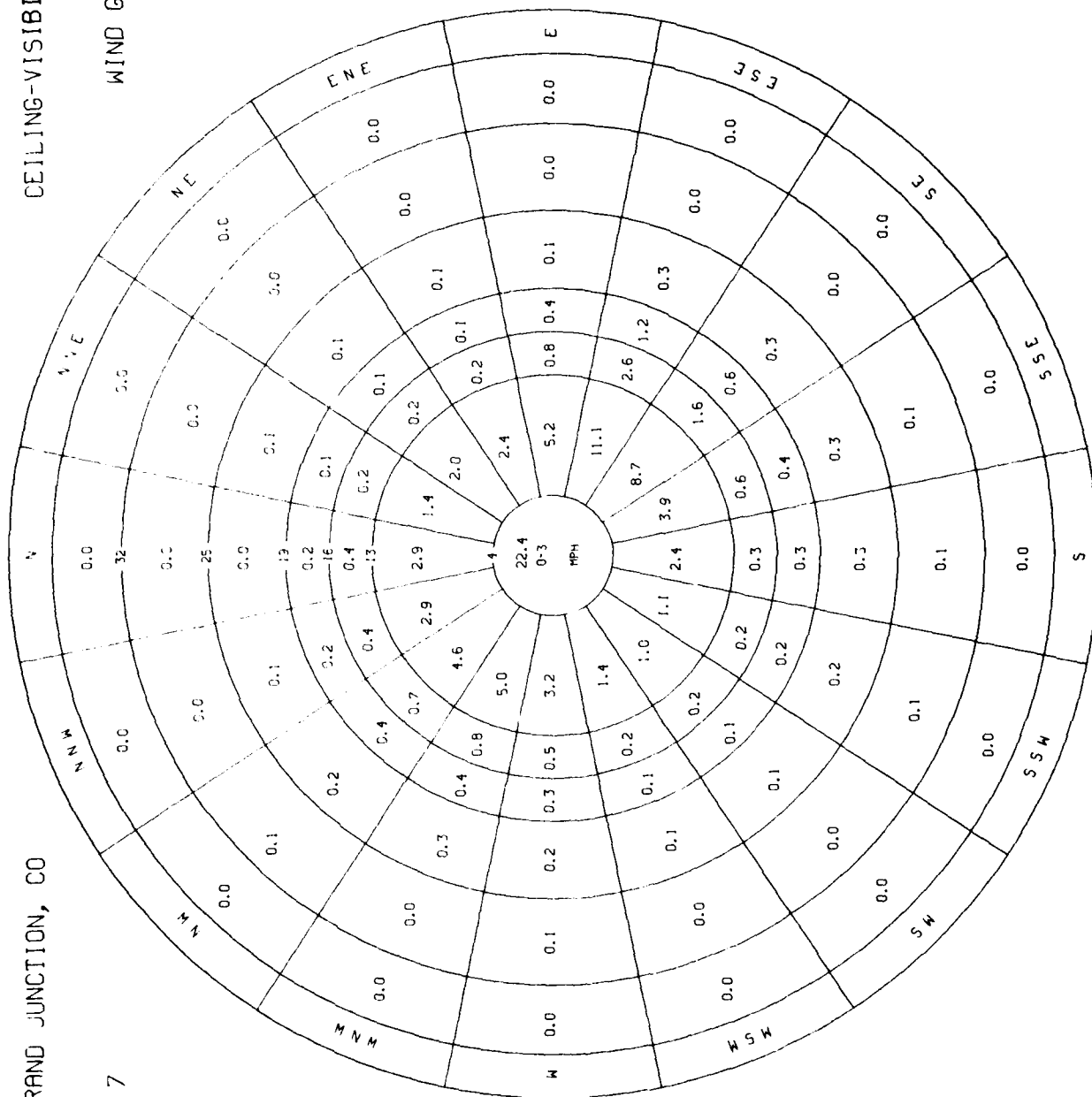
CLASS 6 / NIGHT

NO. OBS.: 106

STATION NUMBER: 23066

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9
NNE	.0	2.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8
NE	.0	.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8
ENE	.0	1.9	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7
E	.0	1.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8
ESE	.0	7.5	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.3
SE	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8
SSE	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8
S	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9
SSW	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
SW	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
WSW	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9
W	.0	2.8	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7
WNW	.0	2.8	.0	5.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	9.4
NW	.0	4.7	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5
NNW	.0	2.8	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.6
CALM	.1	32.1													32.1
TOTAL	.2	69.8	.1	29.2	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	100
															2.8

CEILING-VISIBILITY
WIND GRAPH

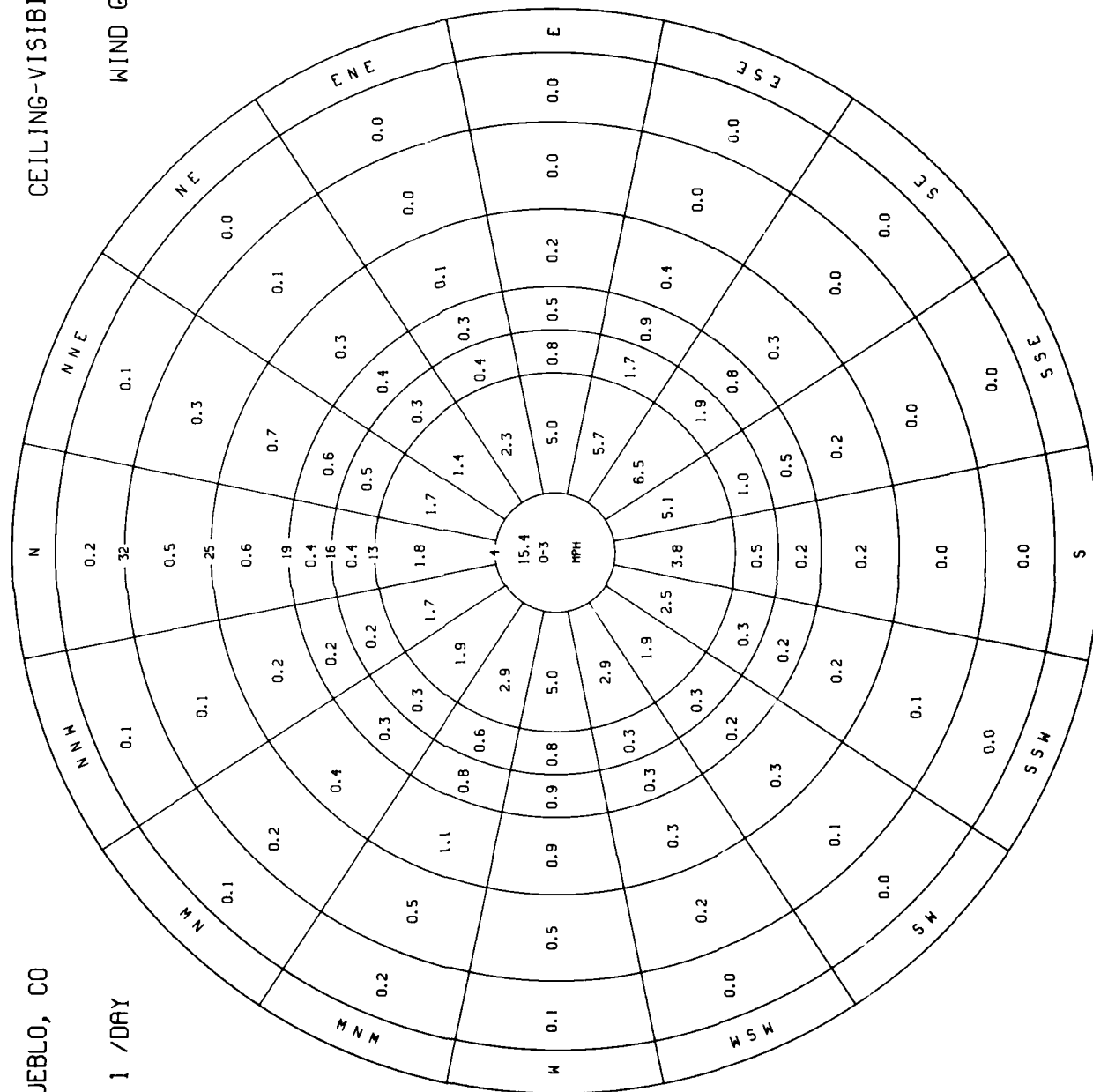


CEILING-VISIBILITY

WIND GRAPH

PUB PUEBLO, CO

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PUB PUEBLO, CO

PERIOD: 1955-1977

CLASS 1 / DAY

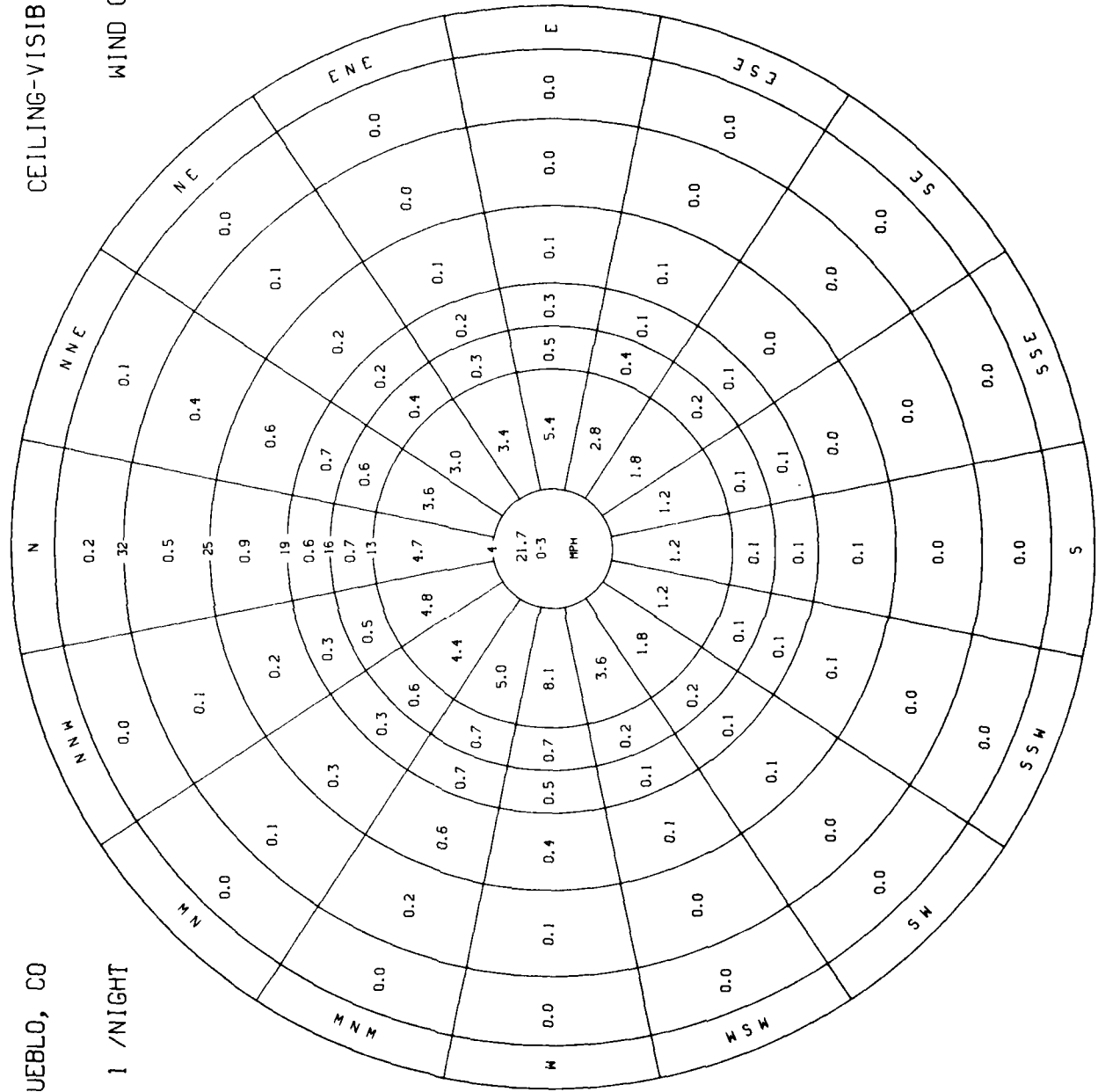
STATION NUMBER: 93058

NO. OBS.: 35410

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.6	.6	1.8	1.9	.4	.4	.4	.4	.6	.7	.5	.5	.2	.2	4.5	4.7	14.1
NNE	.5	.5	1.7	1.8	.5	.5	.6	.6	.7	.7	.3	.3	.1	.1	4.4	4.7	13.7
NE	.5	.5	1.4	1.5	.3	.3	.4	.4	.3	.3	.1	.1	.0	.0	3.0	3.1	10.9
ENE	.4	.5	2.3	2.4	.4	.4	.3	.3	.1	.1	.0	.0	.0	.0	3.6	3.7	9.2
E	.8	.8	5.0	5.2	.8	.9	.5	.6	.2	.2	.0	.0	.0	.0	7.3	7.7	9.1
ESE	.6	.7	5.7	6.0	1.7	1.8	.9	.9	.4	.4	.0	.0	.0	.0	9.3	9.7	10.4
SE	.9	.9	6.5	6.8	1.9	2.0	.8	.9	.3	.3	.0	.0	.0	.0	10.5	11.0	10.0
SSE	.8	.8	5.1	5.3	1.0	1.1	.5	.5	.2	.2	.0	.0	.0	.0	7.6	7.9	9.3
S	1.1	1.2	3.8	4.0	.5	.5	.2	.2	.2	.2	.0	.0	.0	.0	5.9	6.2	8.0
SSW	.8	.8	2.5	2.6	.3	.3	.2	.2	.2	.2	.1	.1	.0	.0	4.0	4.2	8.5
SW	.8	.9	1.9	2.0	.3	.3	.2	.3	.3	.3	.1	.1	.0	.0	3.8	4.0	9.6
WSW	.8	.8	2.9	3.0	.3	.3	.3	.3	.3	.4	.2	.2	.0	.0	4.8	5.1	9.7
W	1.3	1.4	5.0	5.2	.8	.8	.9	.9	.9	.9	.5	.5	.1	.1	9.4	9.9	11.0
WNW	.7	.8	2.9	3.0	.6	.7	.8	.9	1.1	1.2	.5	.6	.2	.2	6.9	7.2	13.4
NW	.6	.6	1.9	2.0	.3	.4	.3	.3	.4	.4	.2	.2	.1	.1	3.8	4.0	11.0
NNW	.5	.5	1.7	1.8	.2	.2	.2	.2	.2	.2	.1	.1	.1	.1	2.9	3.0	10.0
CALM	3.8	4.0													3.8	4.0	
TOTAL	15.4	16.1	52.1	54.6	10.3	10.8	7.5	7.8	6.4	6.7	2.8	2.9	.9	1.0	95.4	100	10.0

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1955-1977

STATION NAME: PUB PUEBLO, CO

CLASS 1 / NIGHT

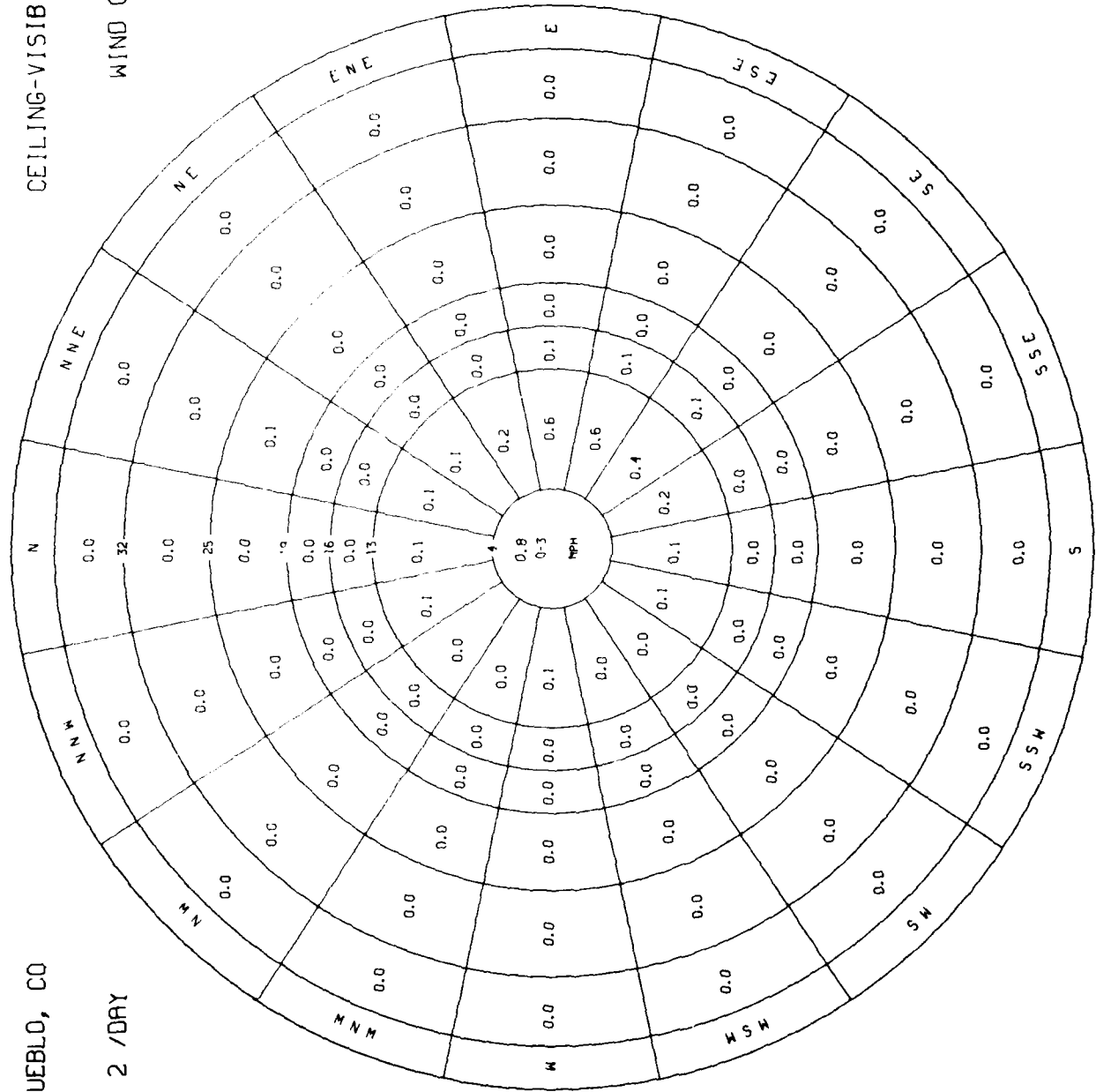
NO. OBS.: 28451

STATION NUMBER: 93058

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	1.0	1.1	4.7	5.0	.7	.7	.6	.7	.9	1.1	.5	.5	.2	.2	8.7 9.2 11.7
NNE	.6	.7	3.6	3.8	.6	.6	.7	.8	.6	.7	.4	.4	1	.1	6.7 7.1 11.9
NNE	.7	.7	3.0	3.2	.4	.4	.2	.2	.2	.2	.1	.1	.0	.0	4.6 4.8 8.9
ENE	.8	.8	3.4	3.6	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	4.8 5.1 8.1
E	1.1	1.2	5.4	5.7	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	7.4 7.8 8.0
ESE	.6	.7	2.8	2.9	.4	.4	.1	.2	.1	.1	.0	.0	.0	.0	4.0 4.3 8.2
SE	.9	1.0	1.8	1.9	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.1 3.2 7.0
SSE	.6	.7	1.2	1.3	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	2.1 2.2 7.0
S	.8	.9	1.2	1.3	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	2.4 2.6 7.1
SSW	.7	.8	1.2	1.2	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	2.2 2.3 7.0
SW	1.1	1.2	1.8	1.9	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	3.4 3.6 6.8
WSW	1.2	1.3	3.6	3.8	.2	.2	.1	.1	.1	.1	.0	.1	.0	.0	5.3 5.6 7.1
W	2.5	2.7	8.1	8.6	.7	.7	.5	.5	.4	.4	.1	.1	.0	.0	12.3 13.0 7.6
WNW	1.4	1.5	5.0	5.3	.7	.7	.7	.7	.6	.6	.2	.2	.0	.0	8.5 9.0 9.5
NW	1.2	1.3	4.4	4.6	.6	.6	.3	.3	.3	.3	.1	.1	.0	.0	6.8 7.2 8.3
NNW	.9	.9	4.8	5.1	.5	.5	.3	.3	.2	.2	.1	.1	.0	.0	6.8 7.2 8.5
CALM	5.5	5.8													5.5 5.8
TOTAL	21.7	23.0	56.0	59.2	6.4	6.8	4.6	4.9	3.8	4.0	1.6	1.7	.5	.5	94.6 100 8.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PUB PUEBLO, CO

PERIOD: 1955-1977

CLASS 2 / DAY

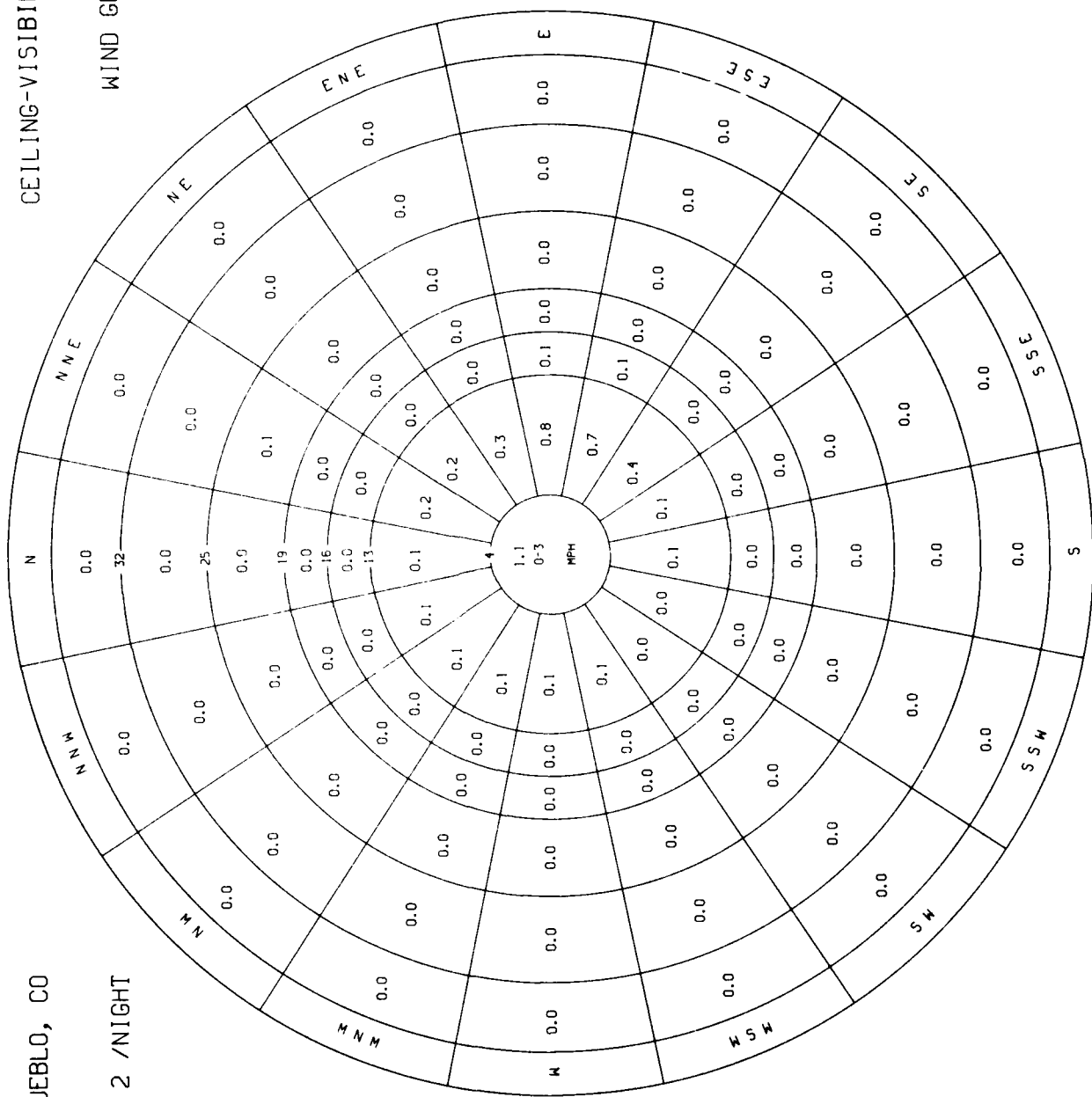
STATION NUMBER: 93058

NO. OBS.: 1703

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.5	.1	1.6	.0	.5	.0	.6	.0	.8	.0	.4	.0	.6	.2	5.0	16.7
NNE	.0	.5	.1	2.6	.0	.8	.0	1.1	.1	1.1	.0	.6	.0	.2	.3	6.8	14.3
N E	.0	.6	.1	2.5	.0	.3	.0	.4	.0	.3	.0	.1	.0	.0	.2	4.1	9.8
ENE	.0	.8	.2	5.0	.0	.9	.0	.5	.0	.1	.0	.0	.0	.0	.3	7.3	9.1
E	.1	1.8	.6	12.4	.1	2.5	.0	.5	.0	.3	.0	.0	.0	.0	.8	17.6	8.8
ESE	.1	1.4	.6	12.5	.1	3.1	.0	1.1	.0	.5	.0	.1	.0	.0	.9	18.6	9.9
SE	.1	1.5	.4	8.9	.1	1.9	.0	.3	.0	.1	.0	.0	.0	.0	.6	12.7	8.8
SSE	.1	1.4	.2	4.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	6.5	6.8
S	.1	1.2	.1	2.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.3	5.8
SSW	.0	.7	.1	1.3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	2.1	6.3
SW	.0	.5	.0	.7	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1	1.4	6.6
WSW	.0	.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.9	6.1
W	.1	1.2	.1	2.1	.0	.0	.0	.0	.0	.2	.0	.1	.0	.0	.2	3.5	6.4
WNW	.0	.8	.0	.8	.0	.0	.0	.1	.0	.1	.0	.0	.0	.3	.1	2.0	11.2
NW	.0	.4	.0	1.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	.1	.1	1.7	8.1
NNW	.0	.9	.1	1.1	.0	.0	.0	.1	.0	.2	.0	.1	.0	.2	.1	2.5	9.8
CALM	.2	3.9													.2	3.9	
TOTAL	.8	18.5	2.7	59.8	.5	10.5	.2	4.7	.2	3.8	.1	1.4	.1	1.4	4.6	100	9.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PUB PUEBLO, CO

PERIOD: 1955-1977

CLASS 2 / NIGHT

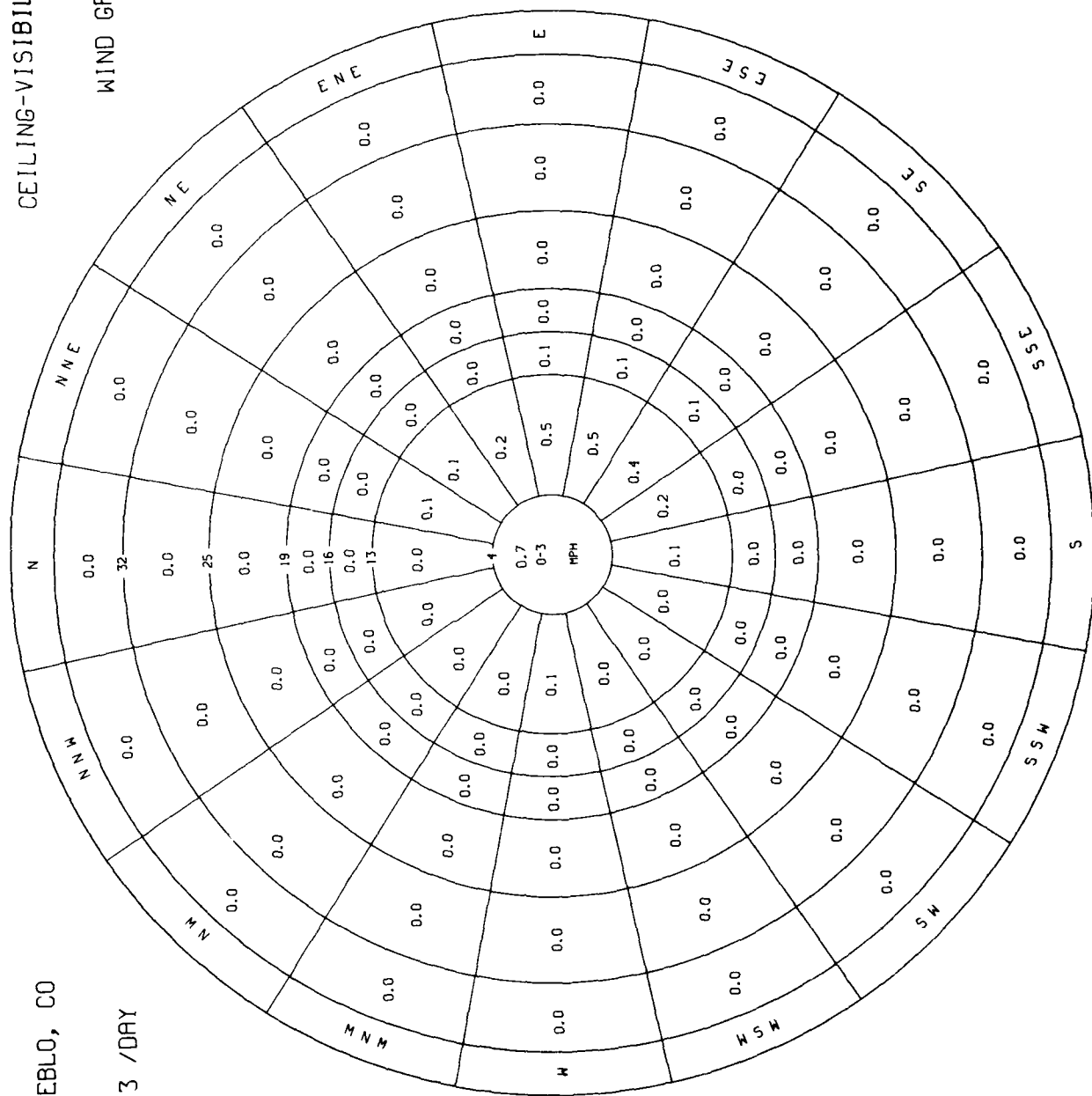
STATION NUMBER: 93058

NO. OBS.: 1624

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.9	.1	2.0	.0	.4	.0	.8	.0	.6	.0	.5	.0	.4	.3	5.7	13.9
NNE	.0	.4	.2	3.7	.0	.9	.0	.9	.1	1.0	.0	.7	.0	.2	.4	7.8	13.5
NE	.0	.7	.2	3.0	.0	.5	.0	.2	.0	.3	.0	.1	.0	.0	.3	4.7	9.3
ENE	.0	.6	.3	5.4	.0	.7	.0	.4	.0	.1	.0	.0	.0	.0	.4	7.3	8.5
E	.1	2.0	.8	14.7	.1	1.7	.0	.8	.0	.2	.0	.0	.0	.0	1.1	19.5	8.5
ESE	.1	1.2	.7	12.7	.1	1.9	.0	.7	.0	.1	.0	.0	.0	.0	.9	16.6	9.0
SE	.1	2.3	.4	7.3	.0	.6	.0	.3	.0	.1	.0	.0	.0	.0	.6	10.6	7.3
SSE	.1	1.4	.1	2.5	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.2	4.2	6.0
S	.0	.7	.1	1.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.3	5.6
SSW	.0	.5	.0	.7	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	1.3	5.1
SW	.0	.9	.0	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.8	4.5
WSW	.0	.7	.1	1.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	1.8	5.4
W	.1	1.0	.1	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.8	4.8
WNW	.0	.5	.1	1.7	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	2.3	6.5
NW	.0	.9	.1	1.5	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	2.5	5.3
NNW	.0	.2	.1	1.6	.0	.1	.0	.2	.0	.3	.0	.1	.0	.0	.1	2.6	10.3
CALM	.3	6.2													.3	6.2	
TOTAL	1.1	21.2	3.3	62.0	.4	7.3	.2	4.6	.2	2.8	.1	1.4	.0	.6	5.4	100	8.1

CEILING-VISIBILITY

WIND GRAPH



PUB PUEBLO, CO

CLASS 3 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1955-1977

STATION NAME: PUB PUEBLO, CO

CLASS 3 / DAY

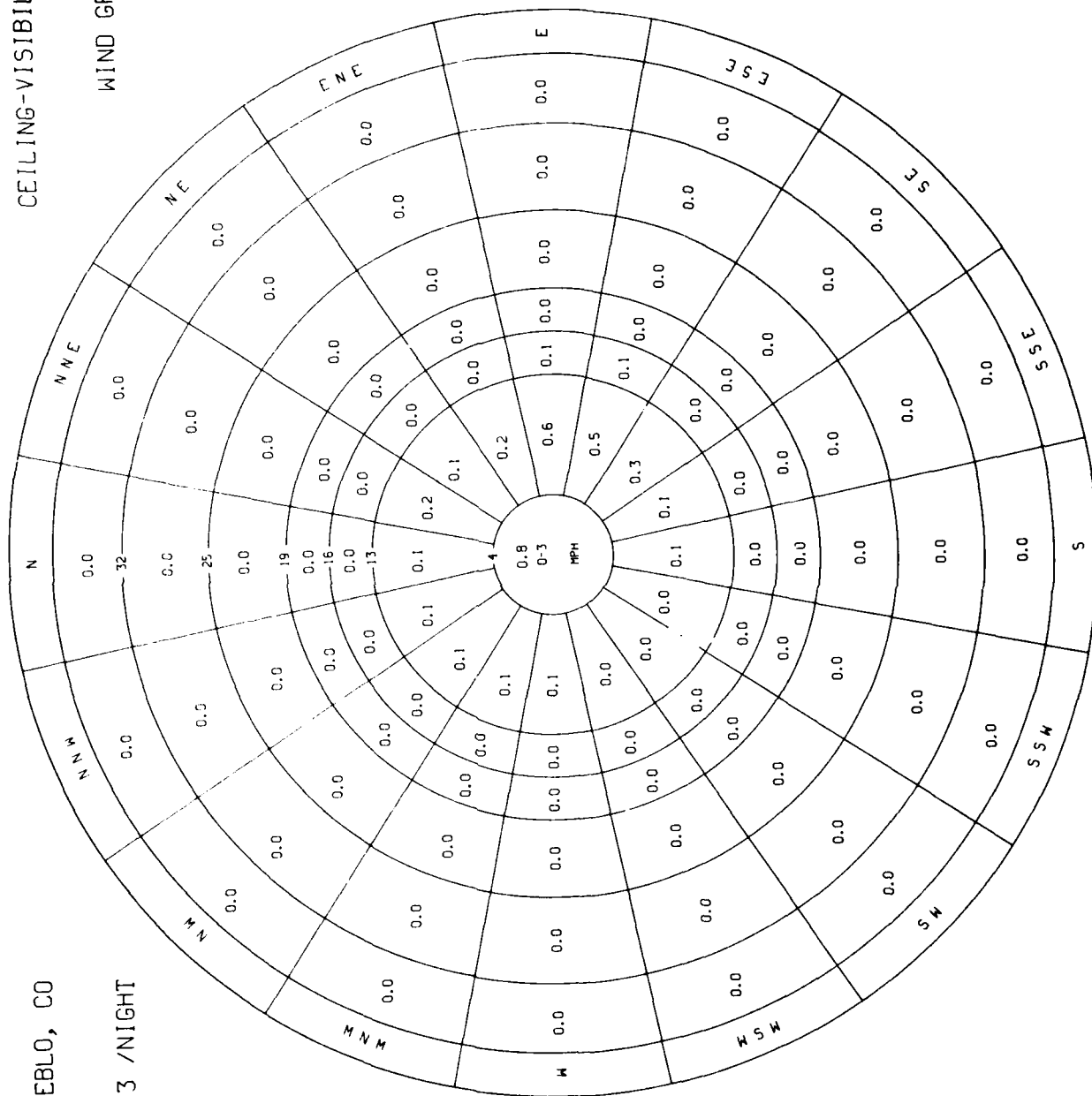
NO. OBS.: 1408

STATION NUMBER: 93058

DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.4	.0	1.1	.0	.4	.0	.6	.0	.6	.0	.4	.0	.4	.2 4.0
NNE	.0	.5	.1	2.7	.0	.6	.0	1.1	.0	1.1	.0	.6	.0	.0	.2 6.5
NENE	.0	.6	.1	2.6	.0	.3	.0	.3	.0	.2	.0	.0	.0	.0	.2 4.0
ENE	.0	.9	.2	5.0	.0	.8	.0	.5	.0	.1	.0	.0	.0	.0	.3 7.2
E	.1	1.8	.5	12.4	.1	2.5	.0	.5	.0	.3	.0	.0	.0	.0	.7 17.5
ESE	.1	1.3	.5	13.4	.1	3.2	.0	1.1	.0	.6	.0	.1	.0	.0	.7 19.7
SE	.1	1.7	.4	9.8	.1	2.2	.0	.3	.0	.1	.0	.0	.0	.0	.5 14.1
SSE	.1	1.5	.2	5.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.3 7.2
S	.0	1.0	.1	2.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 3.3
SSW	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 1.9
SW	.0	.6	.0	.7	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1 1.4
WSW	.0	.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0 1.0
W	.0	1.2	.1	1.7	.0	.0	.0	.0	.0	.2	.0	.1	.0	.0	.1 3.2
WNW	.0	.6	.0	.6	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	.1 1.5
NW	.0	.5	.0	.7	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.1 1.5
NNW	.0	.9	.0	1.1	.0	.0	.0	.1	.0	.2	.0	.1	.0	.1	.1 2.5
CALM	.1	3.3													.1 3.3
TOTAL	.7	17.8	2.3	61.3	.4	10.1	.2	4.5	.1	3.6	.1	1.3	.0	.8	3.8 100
															9.0

CEILING-VISIBILITY WIND GRAPH

PUB PUEBLO, CO
CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PUEBLO, CO

PERIOD: 1955-1977

CLASS 3 / NIGHT

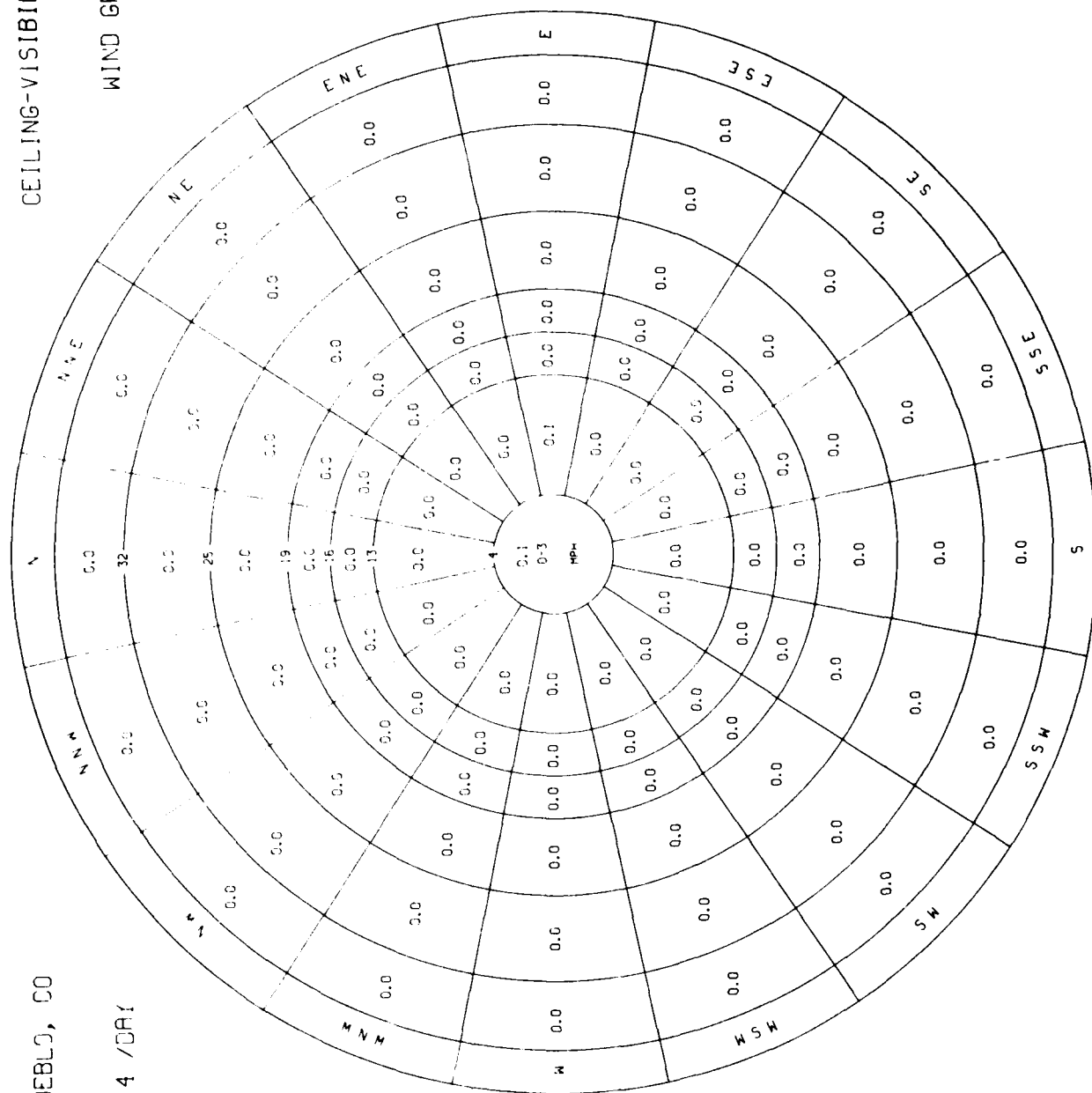
STATION NUMBER: 93058

NO. OBS.: 1248

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.6	.1	2.2	.0	.5	.0	.6	.0	.7	.0	.2	.0	.3	.2	5.3	13.0
NNE	.0	.5	.2	4.1	.0	.9	.0	1.0	.0	1.0	.0	.6	.0	.1	.3	8.1	12.7
NE	.0	.8	.1	3.1	.0	.4	.0	.3	.0	.2	.0	.1	.0	.0	.2	5.0	9.1
ENE	.0	.6	.2	5.8	.0	.8	.0	.4	.0	.1	.0	.0	.0	.0	.3	7.7	8.3
E	.1	1.9	.6	15.6	.1	1.8	.0	.7	.0	.0	.0	.0	.0	.0	.8	20.1	8.6
ESE	.0	1.1	.5	13.2	.1	2.2	.0	.9	.0	.1	.0	.0	.0	.0	.7	17.5	9.1
SE	.1	2.6	.3	7.1	.0	.6	.0	.3	.0	.1	.0	.0	.0	.0	.4	10.7	7.4
SSE	.1	1.4	.1	2.7	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.2	4.5	6.3
S	.0	.6	.1	1.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.5	5.8
SSW	.0	.5	.0	.6	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.1	5.1
SW	.0	.9	.0	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.7	4.6
WSW	.0	.6	.0	.9	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	1.5	5.5
W	.0	1.0	.1	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.4	4.5
WNW	.0	.5	.1	1.7	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.1	2.4	6.8
NW	.0	1.0	.1	1.3	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	2.4	5.3
NNW	.0	.2	.1	1.3	.0	.2	.0	.2	.0	.3	.0	.2	.0	.0	.1	2.3	11.7
CALM	.2	4.9													.2	4.9	
TOTAL	.8	19.6	2.6	63.5	.3	8.0	.2	4.8	.1	2.6	.0	1.0	.0	.4	.1	100	8.2

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PUB PUEBLO, CO

PERIOD: 1955-1977

CLASS 4 / DAY

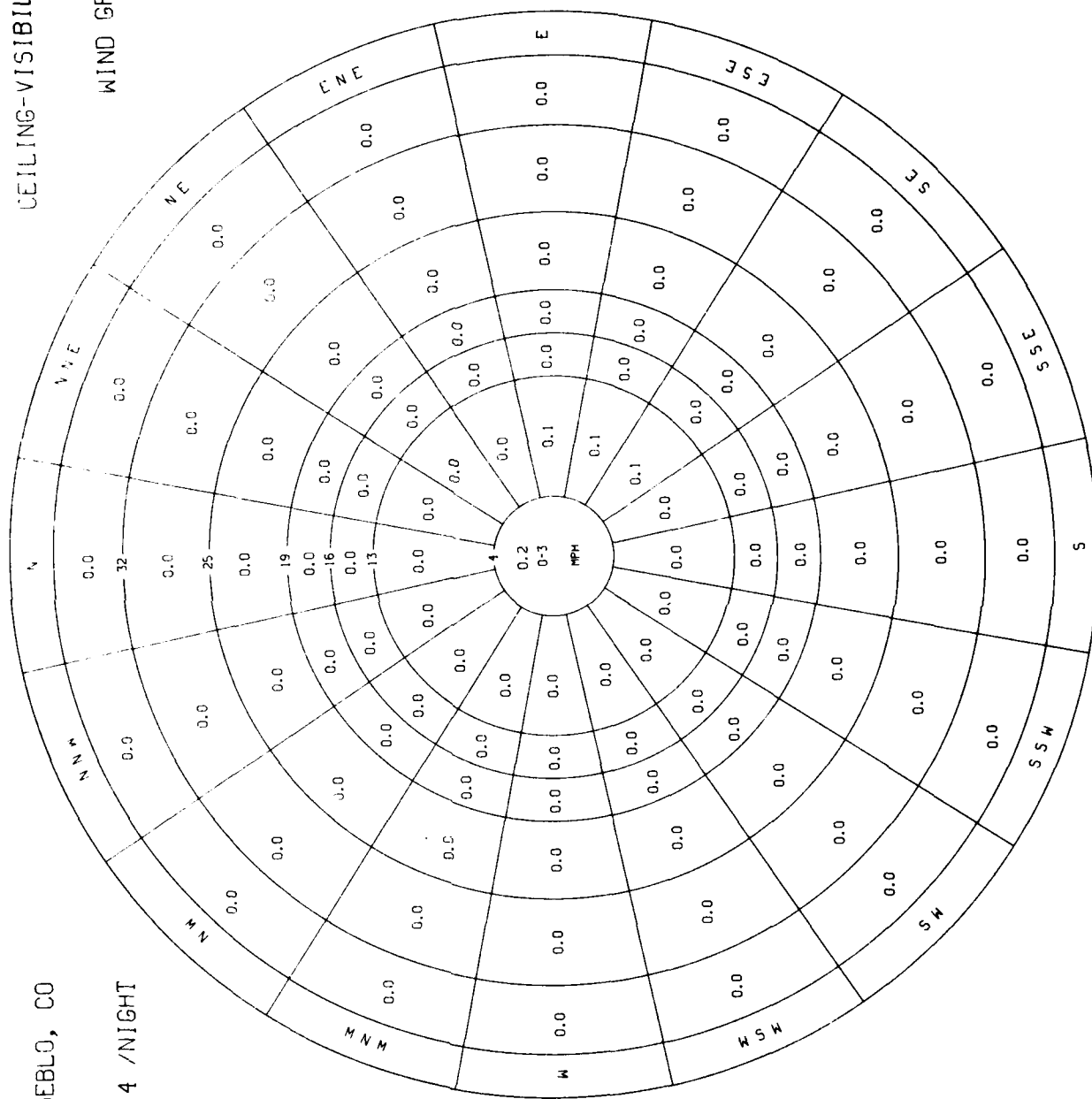
STATION NUMBER: 93058

NO. OBS.: 202

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.0	.0	2.5	.0	1.0	.0	.5	.0	2.5	.0	.0	.0	1.5	.0 8.9
NNE	.0	.5	.0	3.0	.0	1.0	.0	2.0	.0	2.0	.0	.0	.0	.5	.0 8.9
NE	.0	1.0	.0	2.0	.0	.5	.0	1.0	.0	1.0	.0	.5	.0	.0	.0 5.9
ENE	.0	.0	.0	4.5	.0	2.5	.0	1.0	.0	.5	.0	.0	.0	.0	.0 8.4
E	.0	1.0	.1	14.9	.0	3.0	.0	1.0	.0	.0	.0	.0	.0	.0	.1 19.8
ESE	.0	1.0	.0	8.4	.0	3.5	.0	1.5	.0	.0	.0	.0	.0	.0	.1 14.4
SE	.0	.5	.0	5.4	.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.0 7.4
SSE	.0	1.5	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.5
S	.0	1.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.5
SSW	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0 2.0
SW	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .5
WSW	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.0
W	.0	1.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.0
WNW	.0	1.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0 3.5
NW	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0 3.0
NNW	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0 1.0
CALM	.0	4.5													.0 4.5
TOTAL	.1	15.8	.3	53.5	.1	12.4	.0	7.4	.0	5.9	.0	1.0	.0	4.0	.5 10.9

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PUB PUEBLO, CO

PERIOD: 1955-1977

CLASS 4 / NIGHT

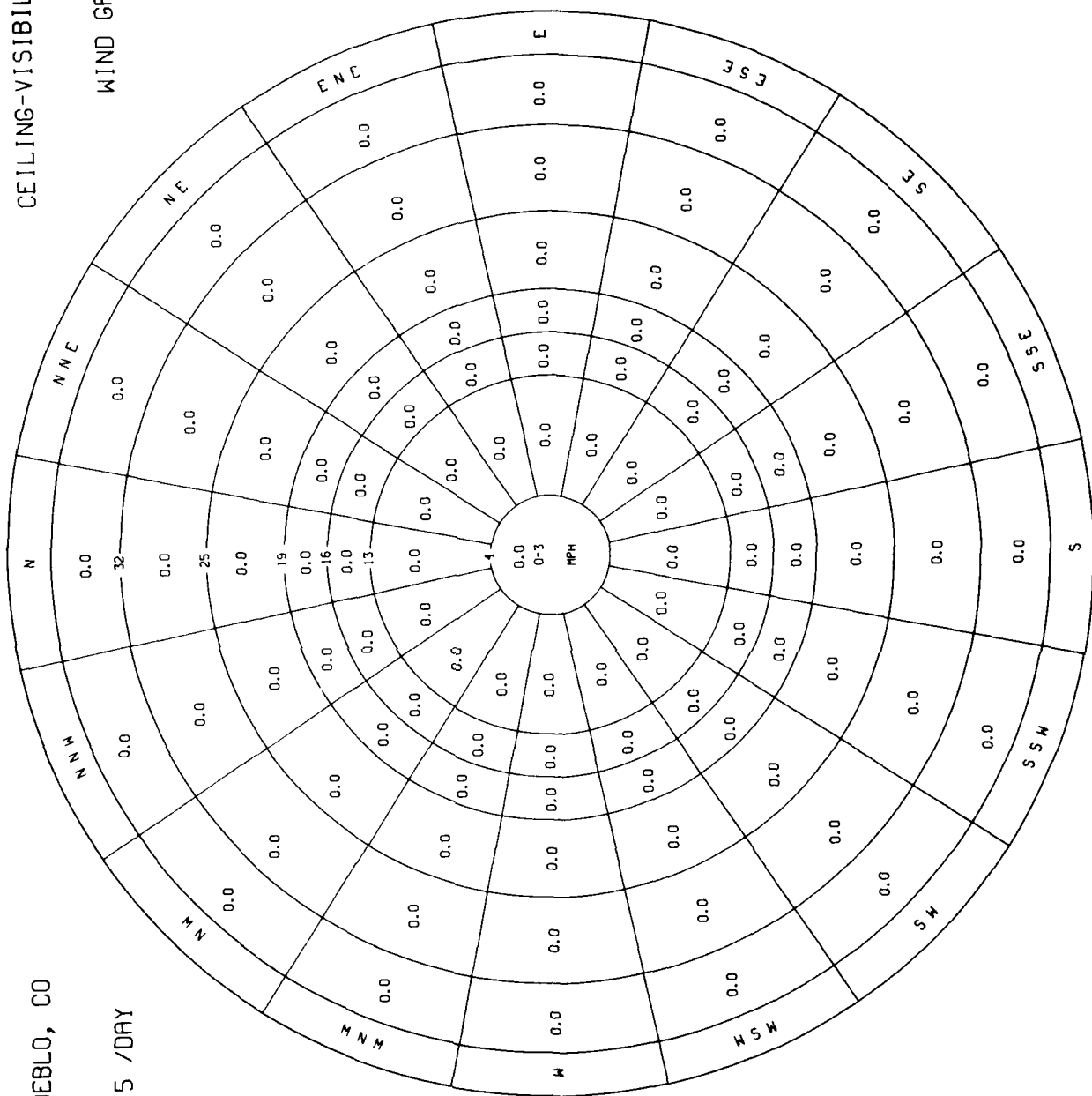
STATION NUMBER: 93058

NO. OBS.: 227

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.3	.0	.4	.0	.0	.0	2.2	.0	.4	.0	.4	.0	.4	.0 5.3
NNE	.0	.4	.0	2.6	.0	.9	.0	1.3	.0	1.8	.0	1.8	.0	.4	.1 9.3
NE	.0	.4	.0	2.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.0
ENE	.0	.4	.0	3.5	.0	.4	.0	.9	.0	.0	.0	.0	.0	.0	.0 5.3
E	.0	2.6	.1	12.8	.0	1.3	.0	1.3	.0	1.3	.0	.0	.0	.0	.1 19.4
ESE	.0	1.3	.1	13.2	.0	1.8	.0	.0	.0	.4	.0	.0	.0	.0	.1 16.7
SE	.0	.9	.1	9.7	.0	.9	.0	.4	.0	.0	.0	.0	.0	.0	.1 11.9
SSE	.0	1.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
S	.0	1.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
SSW	.0	.4	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.8
SW	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .9
WSW	.0	.4	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
W	.0	1.3	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.0
WNW	.0	.4	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.8
NW	.0	.4	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
NNW	.0	.9	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.0
CALM	.1	7.0													.1 7.0
TOTAL	.2	21.1	.4	59.5	.0	6.2	.0	6.2	.0	4.0	.0	2.2	.0	.9	.8 100
															8.6

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1955-1977

STATION NAME: PUB PUEBLO, CO

CLASS 5 / DAY

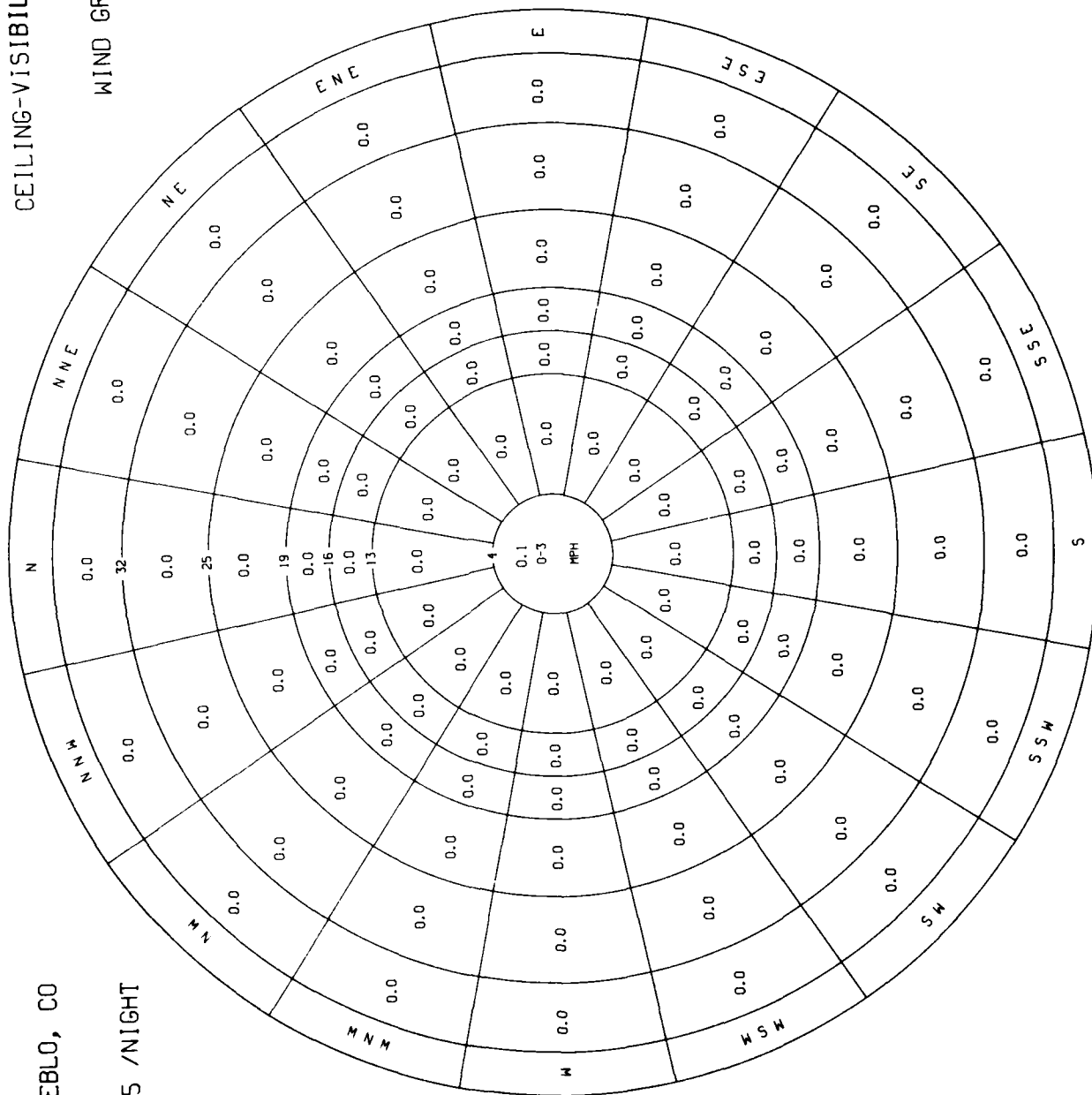
NO. OBS.: 50

STATION NUMBER: 93058

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	2.0	.0	8.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0 12.0
NNE	.0	.0	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	4.0	.0 8.0
NNE	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.0
ENE	.0	.0	.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.0
E	.0	.0	.0	10.0	.0	2.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0 14.0
ESE	.0	2.0	.0	8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 10.0
SE	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.0
SSE	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.0
S	.0	4.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.0
SSW	.0	4.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.0
SW	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
W	.0	2.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.0
WNW	.0	4.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 10.0
NW	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.0
NNW	.0	4.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0 8.0
CALM	.0	4.0													.0 4.0
TOTAL	.0	26.0	.1	58.0	.0	6.0	.0	2.0	.0	2.0	.0	.0	.0	6.0	.1 100
															.0 8.8

PUB PUEBLO, CO

CLASS 5 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1955-1977

STATION NAME: PUB PUEBLO, CO

CLASS 5 / NIGHT

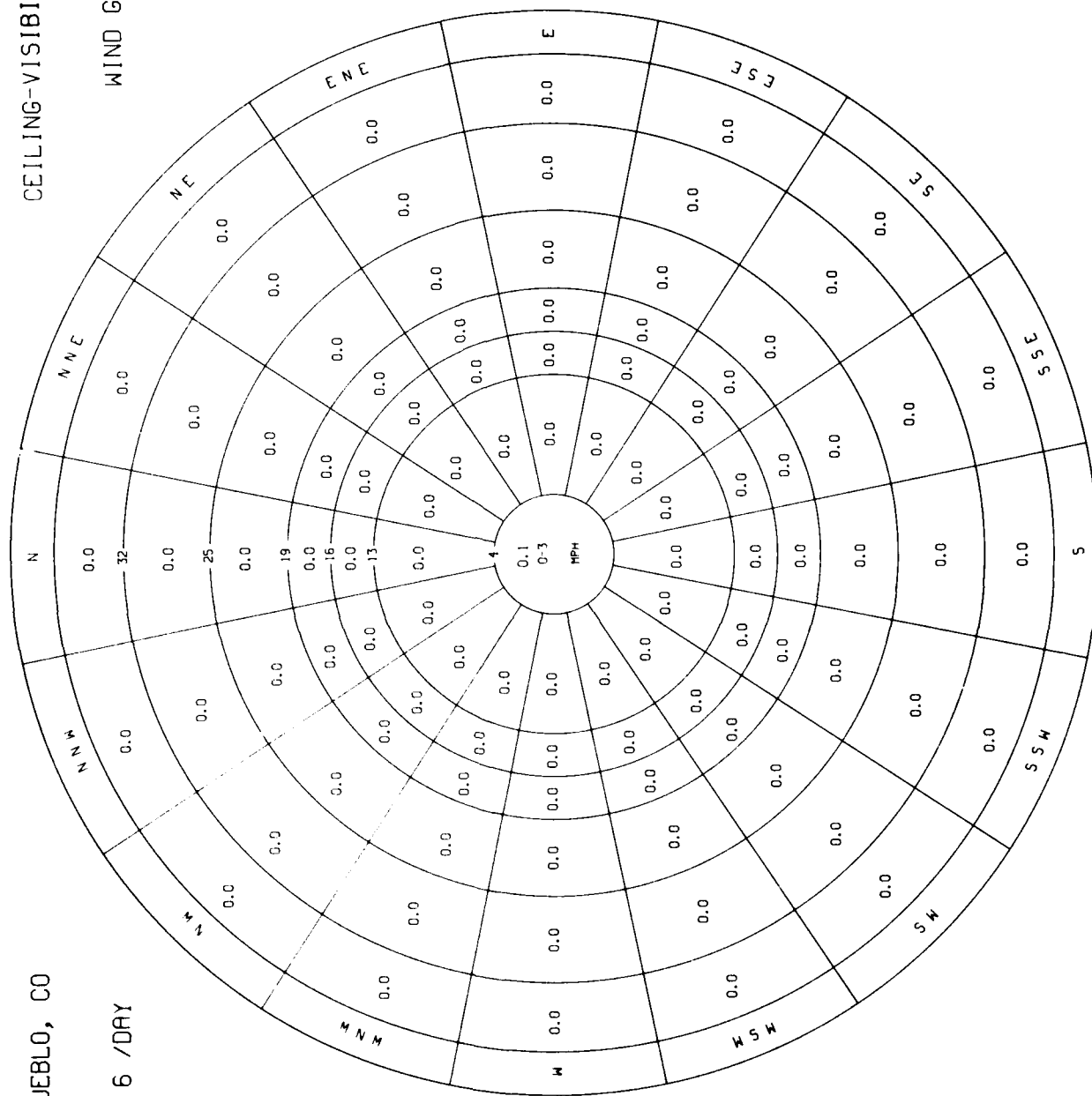
NO. OBS.: 83

STATION NUMBER: 93058

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	4.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	2.4	.0	14.5	18.7
NNE	.0	.0	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	3.6	19.3
NE	.0	.0	.0	1.2	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	3.6	13.0
ENE	.0	.0	.0	7.2	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	9.6	9.6
E	.0	2.4	.0	9.6	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	13.3	7.8
ESE	.0	.0	.0	10.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.8	9.4
SE	.0	4.8	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.6	3.7
SSE	.0	1.2	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	4.7
S	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	6.5
SSW	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	6.0
SW	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	4.0
WSW	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	3.0
W	.0	1.2	.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	5.7
WNW	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	6.7
NW	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	4.5
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	9.6														.0	9.6	
TOTAL	.1	28.9	.2	55.4	.0	3.6	.0	1.2	.0	2.4	.0	4.8	.0	3.6	.0	3	100	8.6

CEILING-VISIBILITY WIND GRAPH

PUB PUEBLO, CO
CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PUB PUEBLO, CO

PERIOD: 1955-1977

CLASS 6 / DAY

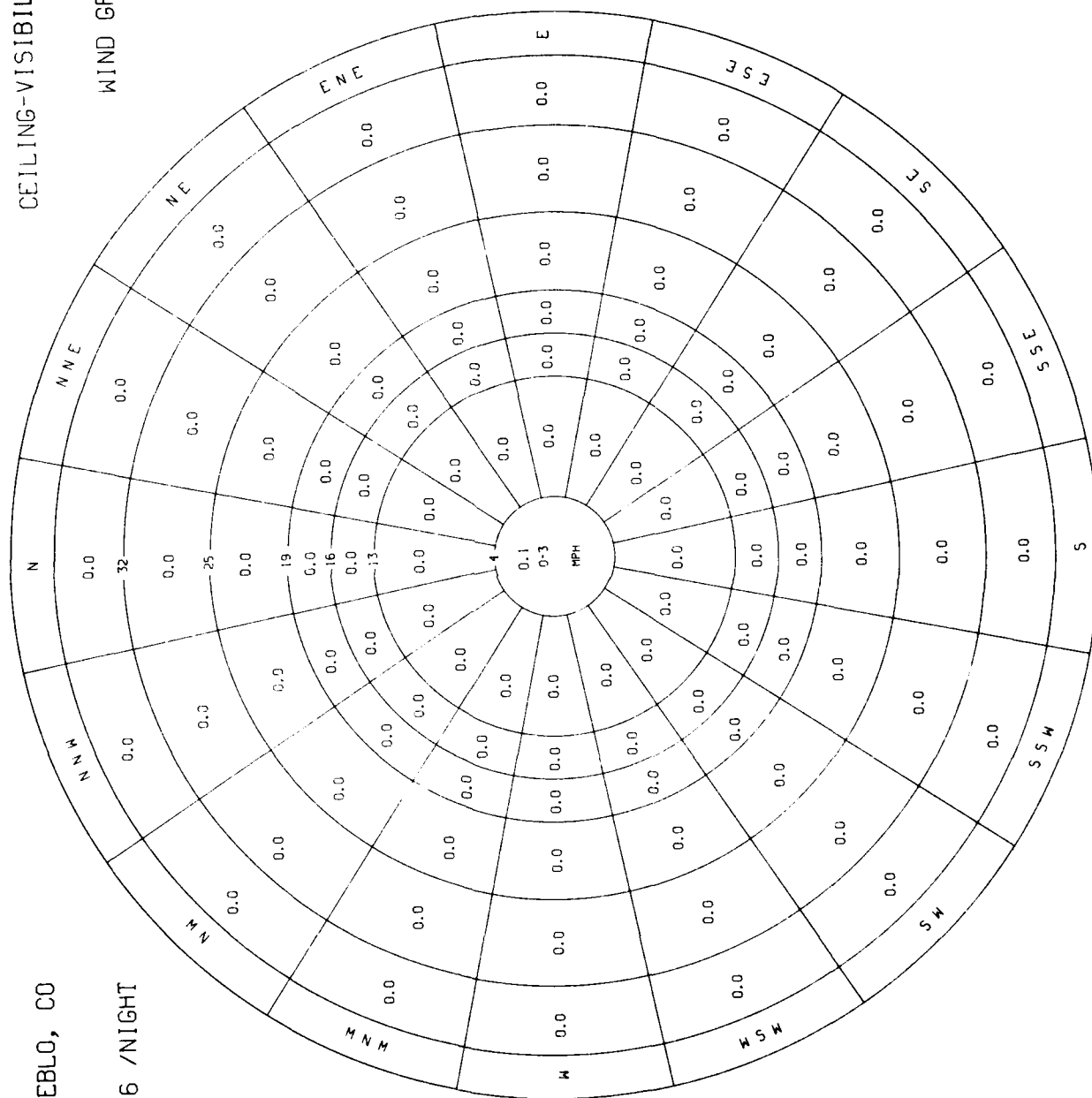
STATION NUMBER: 93058

NO. OBS.: 43

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	4.7	.0	11.6	27.6
NNE	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	4.7	16.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	2.3	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	5.3
E	.0	7.0	.0	7.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.3	6.7
ESE	.0	2.3	.0	7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.3	5.0
SE	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	8.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	3.0
SSW	.0	2.3	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	4.5
SW	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	3.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	6.3
WNW	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	6.0
NW	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	8.0
NNW	.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	5.0
CALM	.0	20.9														.0	20.9	
TOTAL	.1	44.2	.1	44.2	.0	2.3	.0	.0	.0	.0	.0	.0	4.7	.0	4.7	.1	100	7.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FORT PUEBLO, CO

PERIOD: 1955-1977

CLASS 6 / NIGHT

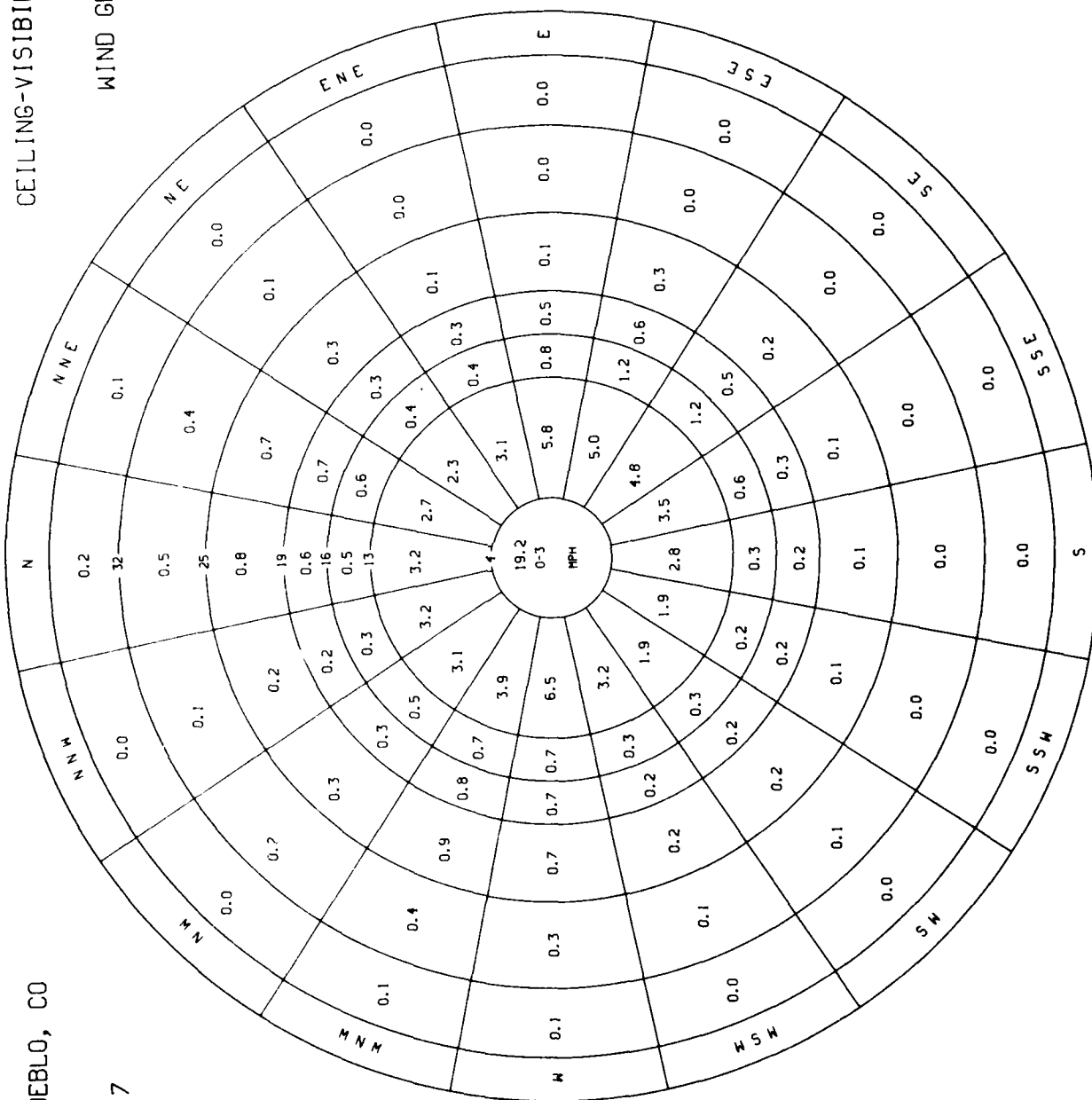
STATION NUMBER: 93053

NO. OBS.: 66

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	6.0
NNE	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	6.5
NE	.0	.0	.0	3.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	4.5	11.3
ENE	.0	1.5	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	4.0
E	.0	1.5	.0	10.6	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.2	7.4
ESE	.0	3.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	5.0
SE	.0	.0	.0	6.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	6.3
SSE	.0	1.5	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	5.5
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	1.5	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	4.5
SW	.0	4.5	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	3.8
WSW	.0	1.5	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	4.3
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	3.0
NW	.0	1.5	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	5.5
NNW	.0	.0	.0	4.5	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	6.1	10.0
CALM	.1	24.2													.1	24.2	
TOTAL	.1	42.4	.1	51.5	.0	3.0	.0	.0	.0	3.0	.0	.0	.0	.0	.2	100	4.8

CEILING-VISIBILITY

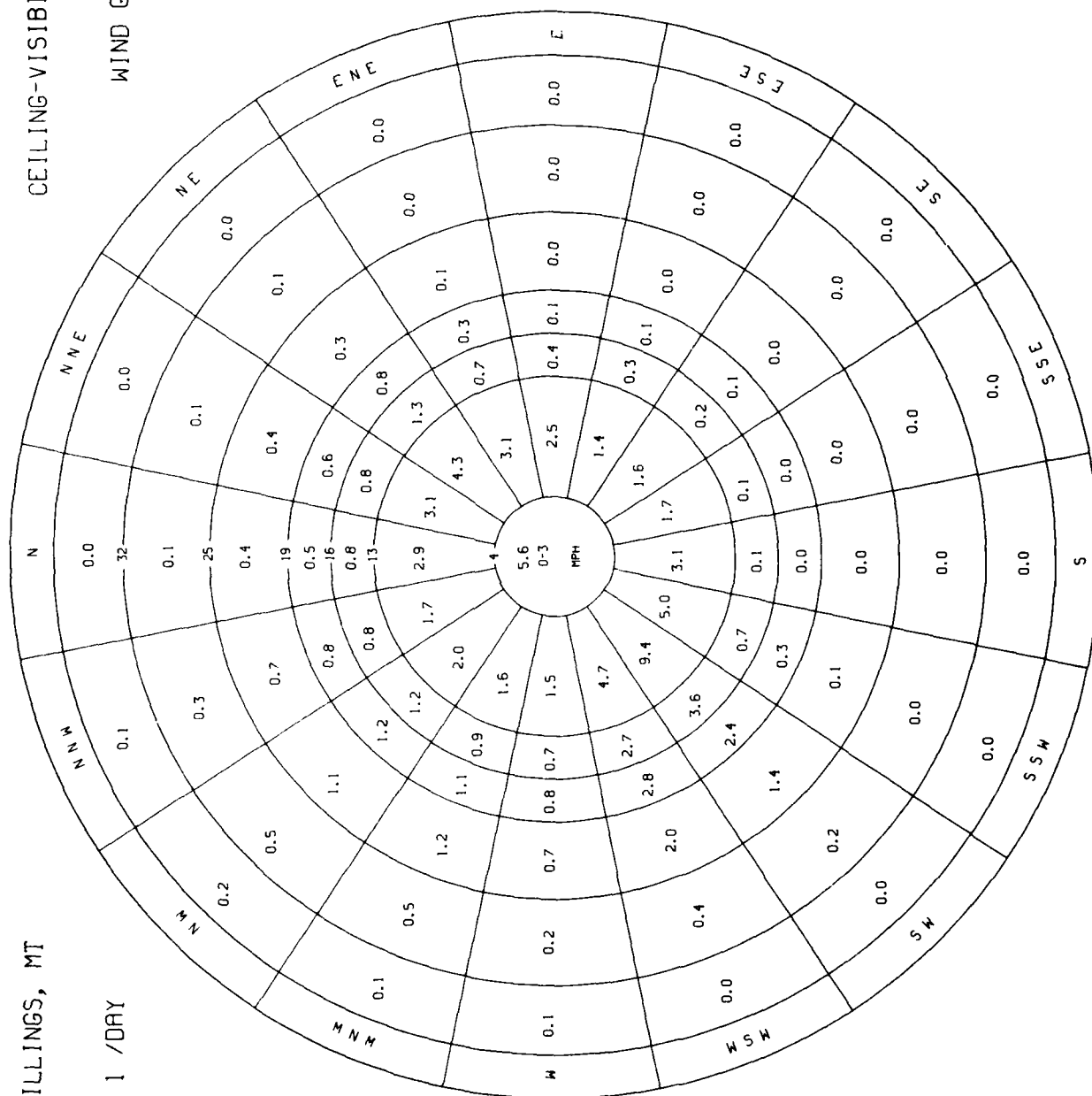
WIND GRAPH



BIL BILLINGS, MT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: BIL BILLINGS, MT

PERIOD: 1948-1978

CLASS 1 / DAY

STATION NUMBER: 24033

NO. OBS.: 49575

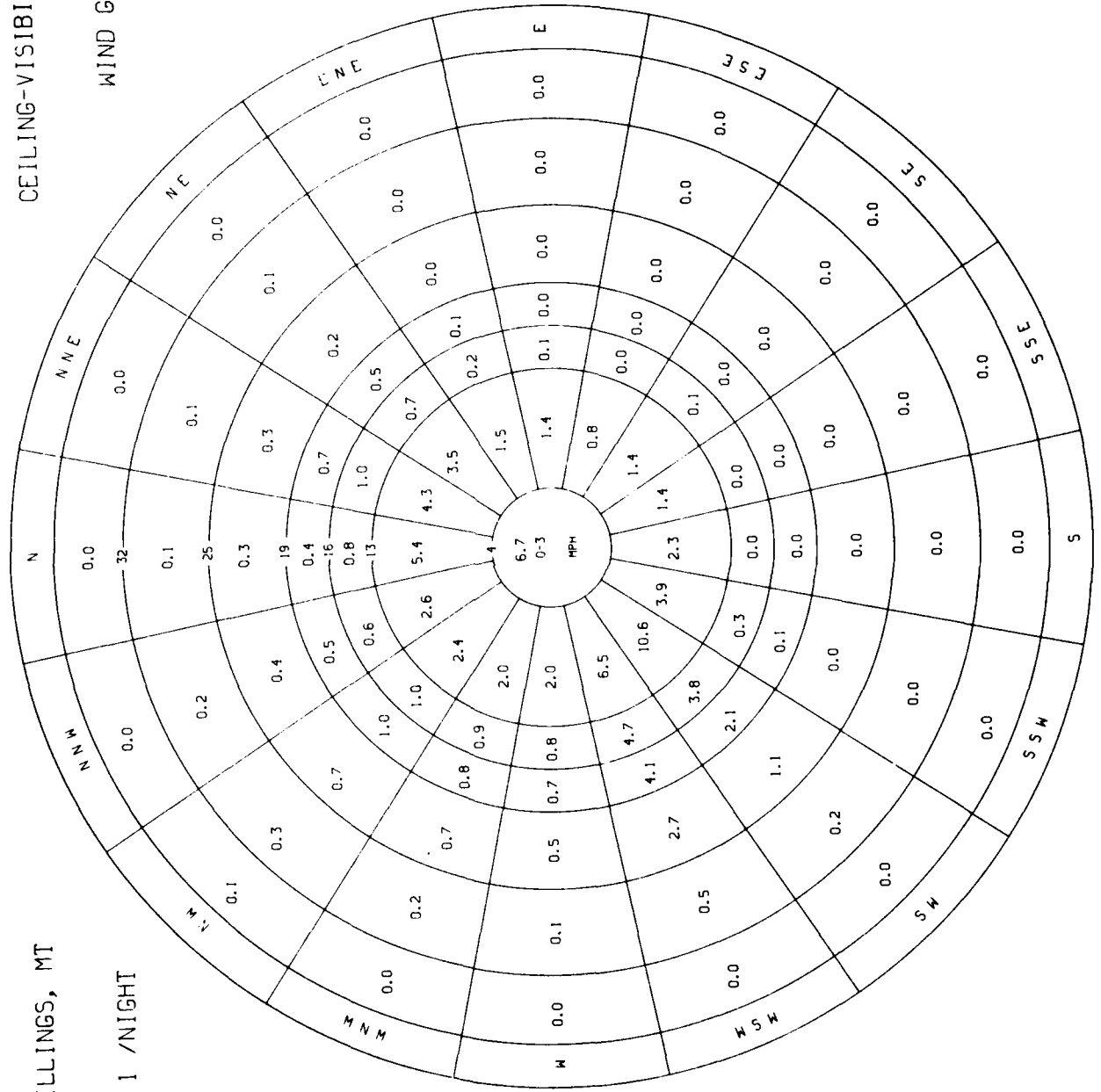
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	C	D			
N	.3	.3	2.9	3.1	.8	.8	.5	.6	.4	.4	.1	.1	.0	.0	5.0	5.3	11.2
NNE	.3	.3	3.1	3.3	.8	.8	.6	.6	.4	.4	.1	.1	.0	.0	5.2	5.6	11.3
NE	.3	.3	4.3	4.6	1.3	1.4	.8	.9	.3	.4	.1	.1	.0	.0	7.1	7.6	11.0
ENE	.2	.2	3.1	3.3	.7	.8	.3	.3	.1	.1	.0	.0	.0	.0	4.5	4.8	9.9
E	.3	.3	2.5	2.6	.4	.4	.1	.2	.0	.0	.0	.0	.0	.0	3.3	3.6	9.0
ESE	.2	.2	1.4	1.5	.3	.3	.1	.1	.0	.1	.0	.0	.0	.0	2.0	2.1	9.3
SE	.2	.3	1.6	1.7	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.2	2.4	8.3
SSE	.3	.4	1.7	1.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.2	2.4	7.2
S	.4	.5	3.1	3.3	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	3.7	3.9	7.3
SSW	.4	.5	5.0	5.3	.7	.7	.3	.3	.1	.1	.0	.0	.0	.0	6.5	6.9	9.1
SW	.5	.5	9.4	10.0	3.6	3.9	2.4	2.6	1.4	1.5	.2	.2	.0	.0	17.5	18.7	12.1
WSW	.2	.2	4.7	5.0	2.7	2.9	2.8	2.9	2.0	2.2	.4	.4	.0	.0	12.8	13.6	14.3
W	.1	.1	1.5	1.6	.7	.7	.8	.9	.7	.8	.2	.3	.1	.1	4.2	4.5	14.7
WNW	.1	.1	1.6	1.7	.9	1.0	1.1	1.2	1.2	1.2	.5	.5	.1	.1	5.4	5.8	16.3
NW	.1	.1	2.0	2.1	1.2	1.2	1.2	1.3	1.1	1.2	.5	.6	.2	.2	6.3	6.7	15.8
NNW	.1	.1	1.7	1.8	.8	.8	.8	.9	.7	.7	.3	.3	.1	.1	4.5	4.8	14.7
CAL ^N	1.5	1.6													1.5	1.6	
TOTAL	5.6	6.0	49.4	52.7	15.3	16.3	12.0	12.8	8.5	9.0	2.4	2.5	.6	.7	93.8	100	11.9

CEILING-VISIBILITY

WIND GRAPH

BIL BILLINGS, MT

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: BIL BILLINGS, MT

CLASS 1 / NIGHT

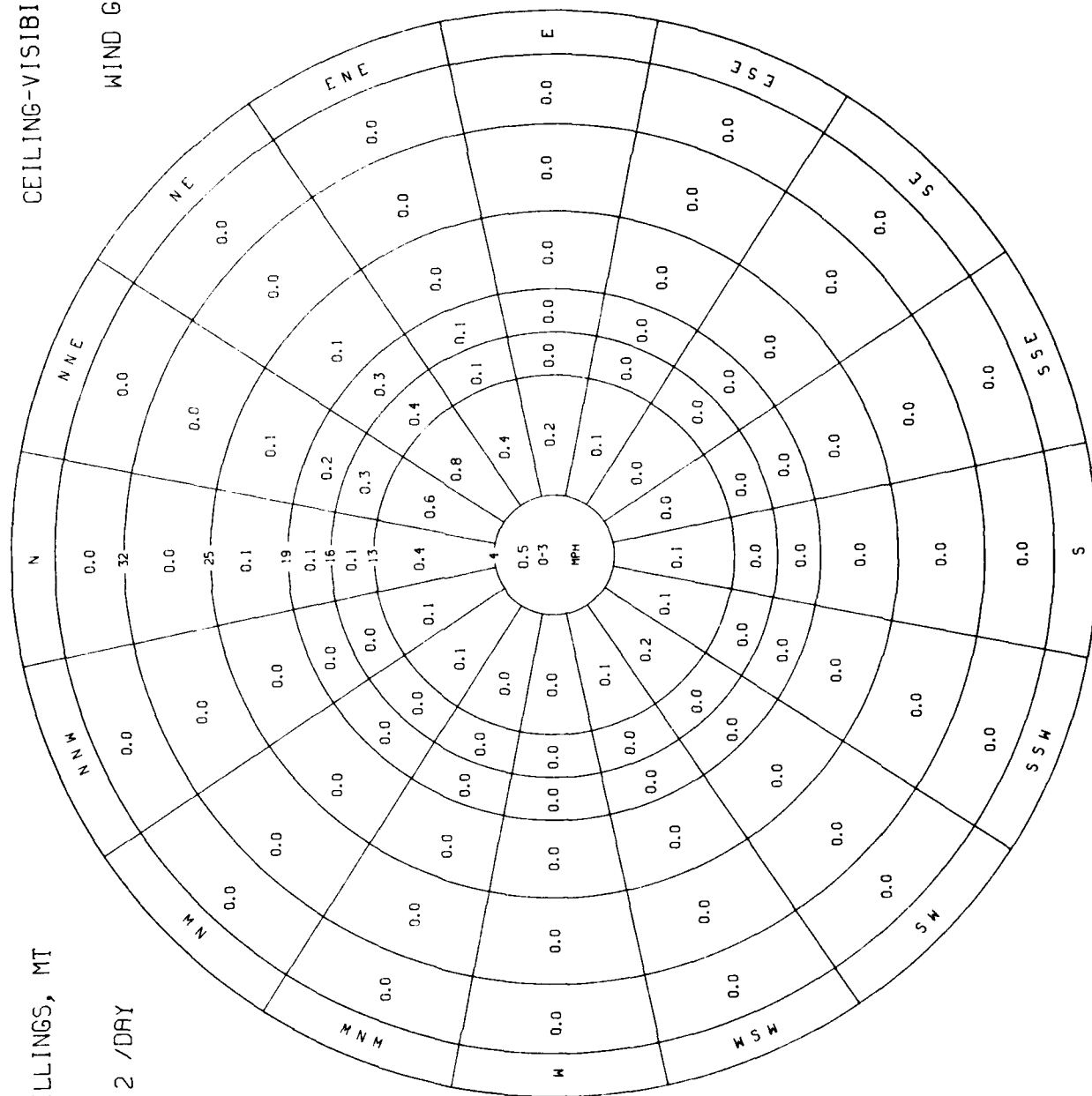
NO. OBS.: 35318

STATION NUMBER: 24033

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D		
N	.4	.5	5.4	5.7	.8	.9	.4	.5	.3	.3	.1	.1	.0	.0	7.4	7.9	9.4
NNE	.4	.4	4.3	4.5	1.0	1.1	.7	.7	.3	.3	.1	.1	.0	.0	6.7	7.1	10.5
NE	.3	.4	3.5	3.7	.7	.8	.5	.5	.2	.2	.1	.1	.0	.0	5.3	5.6	10.1
ENE	.2	.2	1.5	1.6	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.0	2.1	8.5
E	.2	.2	1.4	1.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.8	7.4
ESE	.1	.1	.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.1	7.8
SE	.3	.3	1.4	1.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.9	7.1
SSE	.3	.3	1.4	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.8	6.7
S	.4	.5	2.3	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	3.0	8.5
SSW	.5	.5	3.9	4.2	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	4.8	5.2	8.1
SW	.5	.6	10.6	11.3	3.8	4.0	2.1	2.2	1.1	1.2	.2	.2	.0	.0	18.3	19.5	11.6
WSW	.2	.2	6.5	6.9	4.7	5.0	4.1	4.4	2.7	2.9	.5	.5	.0	.0	18.7	19.9	14.3
W	.2	.2	2.0	2.1	.8	.9	.7	.7	.5	.6	.1	.2	.0	.0	4.3	4.6	13.1
WNW	.1	.1	2.0	2.2	.9	1.0	.8	.9	.7	.8	.2	.2	.0	.0	4.9	5.2	13.9
NW	.2	.2	2.4	2.5	1.0	1.1	1.0	1.0	.7	.7	.3	.3	.1	.1	5.6	6.0	13.6
NNW	.2	.2	2.6	2.8	.6	.7	.5	.6	.4	.5	.2	.2	.0	.0	4.6	4.9	11.7
CALM	2.1	2.2													2.1	2.2	
TOTAL	6.7	7.1	51.9	55.4	15.2	16.2	11.0	11.8	7.1	7.5	1.7	1.8	.2	.2	93.7	100	11.2

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: BIL BILLINGS, MT

CLASS 2 / DAY

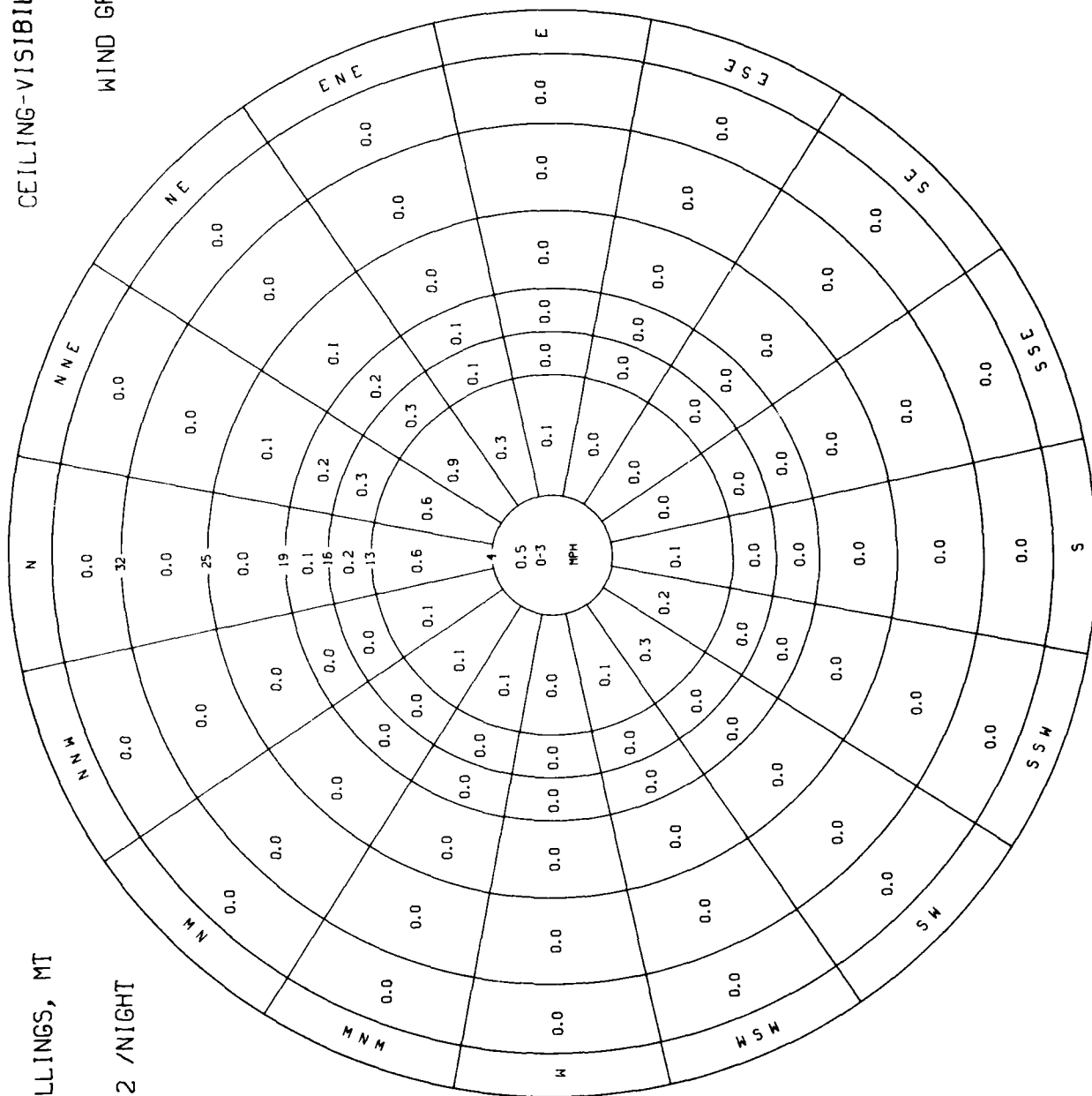
NO. OBS.: 3296

STATION NUMBER: 24033

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.5	.4	6.3	.1	1.8	.1	1.9	.1	1.2	.0	.3	.0	.0	.7	12.0	12.0
NNE	.0	.5	.6	9.1	.3	4.5	.2	3.5	.1	2.4	.0	.7	.0	.1	1.3	20.8	13.4
NE	.0	.5	.8	13.6	.4	6.4	.3	4.2	.1	2.3	.0	.6	.0	.0	1.7	27.6	12.6
ENE	.0	.4	.4	6.3	.1	1.9	.1	.9	.0	.2	.0	.1	.0	.0	.6	9.8	10.8
E	.0	.3	.2	2.8	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.2	3.5	8.1
ESE	.0	.1	.1	1.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.2	7.7
SE	.0	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	5.4
SSE	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	5.3
S	.0	.2	.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.2	6.0
SSW	.0	.4	.1	1.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.4	6.8
SW	.0	.5	.2	3.4	.0	.4	.0	.2	.0	.1	.0	.0	.0	.0	.3	4.6	8.5
WSW	.0	.2	.1	1.5	.0	.2	.0	.2	.0	.2	.0	.1	.0	.1	.1	2.4	10.9
W	.0	.2	.0	.4	.0	.0	.0	.2	.0	.1	.0	.1	.0	.0	.1	.9	11.7
WNW	.0	.1	.0	.7	.0	.2	.0	.1	.0	.3	.0	.1	.0	.0	.1	1.5	12.7
NW	.0	.2	.1	1.5	.0	.4	.0	.5	.0	.7	.0	.5	.0	.3	.3	4.1	16.5
NNW	.0	.3	.1	1.7	.0	.5	.0	.6	.0	.6	.0	.3	.0	.1	.3	4.2	13.8
CALM	.2	2.4													.2	2.4	
TOTAL	.5	7.3	3.3	52.2	1.0	16.8	.8	12.3	.5	8.1	.2	2.7	.0	.6	6.2	100	11.6

CEILING-VISIBILITY

WIND GRAPH



BIL BILLINGS, MT

CLASS 2 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: BIL BILLINGS, MT

PERIOD: 1948-1978

CLASS 2 / NIGHT

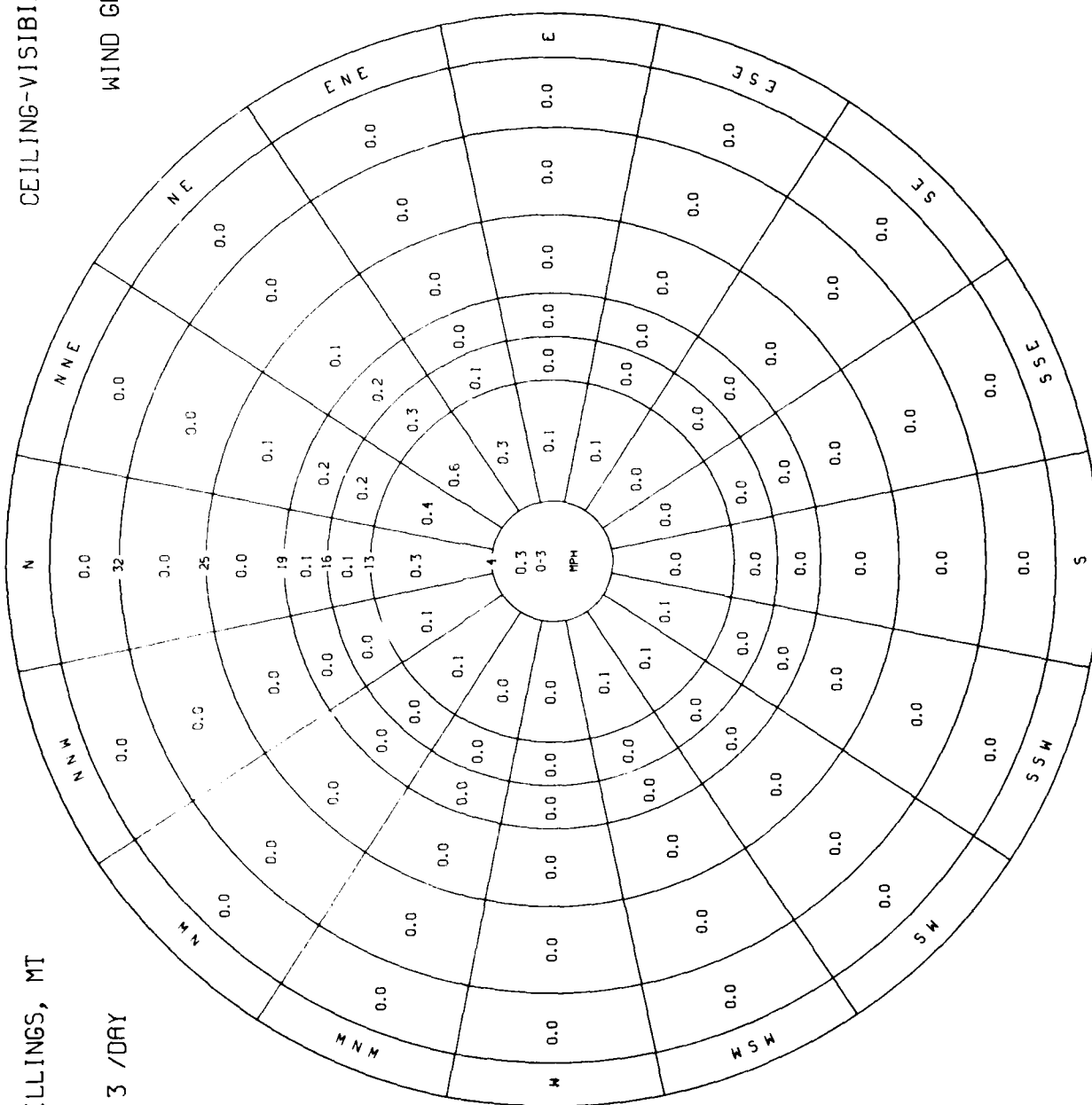
STATION NUMBER: 24033

NO. OBS.: 2358

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.1	1.0	.6	9.2	.2	2.5	.1	1.6	.0	.6	.0	.4	.0	.0	1.0	15.4	10.9
NNE	.0	.6	.6	10.1	.3	4.2	.2	2.8	.1	2.2	.0	.6	.0	.0	1.3	20.5	12.6
N E	.0	.6	.9	13.7	.3	4.8	.2	3.9	.1	1.9	.0	.3	.0	.0	1.6	25.1	12.1
ENE	.0	.3	.3	5.5	.1	1.5	.1	.8	.0	.4	.0	.1	.0	.0	.5	8.6	10.9
E	.0	.2	.1	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.1	7.4
ESE	.0	.3	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	6.1
SE	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	5.0
SSE	.0	.3	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.0	5.6
S	.0	.4	.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.5	5.7
SSW	.0	.6	.2	2.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.4	7.1
SW	.0	.5	.3	4.4	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.3	5.4	8.2
WSW	.0	.3	.1	1.7	.0	.4	.0	.2	.0	.1	.0	.1	.0	.0	.2	2.8	9.7
W	.0	.2	.0	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.1	7.1
WNW	.0	.3	.1	.8	.0	.1	.0	.0	.0	.3	.0	.2	.0	.0	.1	1.7	11.5
NW	.0	.2	.1	1.8	.0	.6	.0	.5	.0	.4	.0	.3	.0	.0	.2	3.8	12.9
NNW	.0	.2	.1	2.1	.0	.5	.0	.6	.0	.5	.0	.1	.0	.0	.3	4.0	11.8
CALM	.1	2.3													.1	2.3	
TOTAL	.5	8.5	3.6	57.0	1.0	15.3	.7	10.6	.4	6.4	.1	2.1	.0	.1	6.3	100	10.8

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: BIL BILLINGS, MT

CLASS 3 / DAY

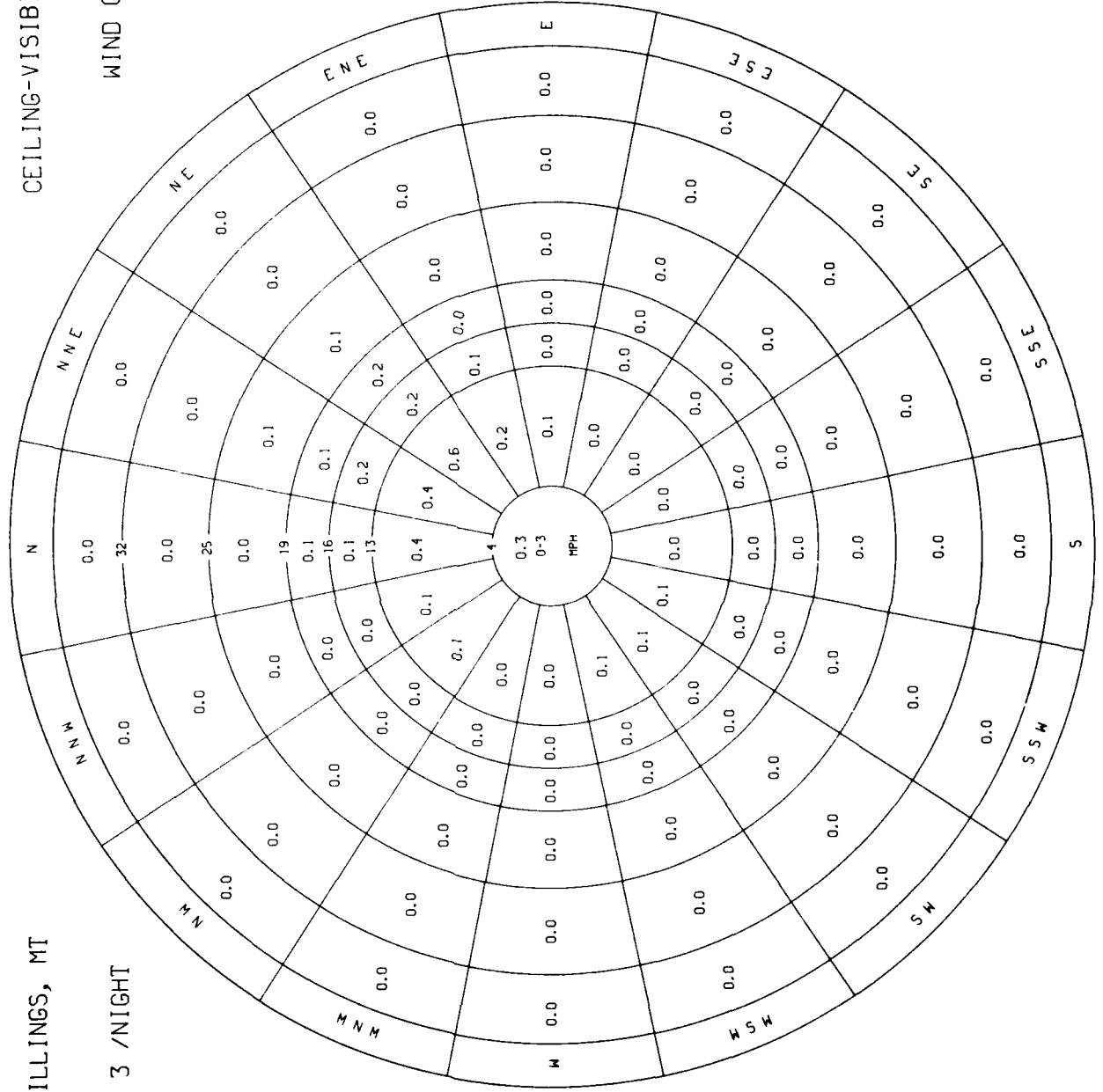
NO. OBS.: 2397

STATION NUMBER: 24033

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.6	.3	6.1	.1	1.8	.1	2.1	.0	1.1	.0	.3	.0	.0	.5	12.0	12.0
NNE	.0	.5	.4	8.6	.2	4.2	.2	3.7	.1	2.0	.0	.7	.0	.1	.9	19.8	13.3
NE	.0	.4	.6	13.7	.3	6.9	.2	4.5	.1	2.3	.0	.6	.0	.0	1.3	28.4	12.7
ENE	.0	.4	.3	6.1	.1	2.0	.0	1.1	.0	.3	.0	.1	.0	.0	.5	10.1	11.0
E	.0	.3	.1	3.1	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.2	3.9	8.2
ESE	.0	.1	.1	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.4	7.4
SE	.0	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	5.4
SSE	.0	.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	5.3
S	.0	.2	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.1	5.7
SSW	.0	.3	.1	1.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.9	6.8
SW	.0	.5	.1	2.7	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.2	3.8	8.0
WSW	.0	.2	.1	1.3	.0	.2	.0	.1	.0	.3	.0	.0	.0	.0	.1	2.1	10.5
W	.0	.0	.0	.3	.0	.0	.0	.2	.0	.1	.0	.1	.0	.0	.0	.8	13.7
WNW	.0	.1	.0	.8	.0	.2	.0	.1	.0	.4	.0	.1	.0	.0	.1	1.7	12.7
NW	.0	.2	.1	1.6	.0	.4	.0	.7	.0	.7	.0	.3	.0	.3	.2	4.3	16.0
NNW	.0	.4	.1	1.8	.0	.5	.0	.8	.0	.6	.0	.3	.0	.1	.2	4.5	13.7
CALM	.1	2.5													.1	2.5	
TOTAL	.3	7.3	2.3	51.3	.8	17.1	.6	13.5	.4	7.8	.1	2.5	.0	.5	4.5	100	11.7

CEILING-VISIBILITY

WIND GRAPH



BIL BILLINGS, MT

CLASS 3 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: BIL BILLINGS, MT

PERIOD: 1948-1978

CLASS 3 / NIGHT

STATION NUMBER: 24033

NO. OBS.: 1549

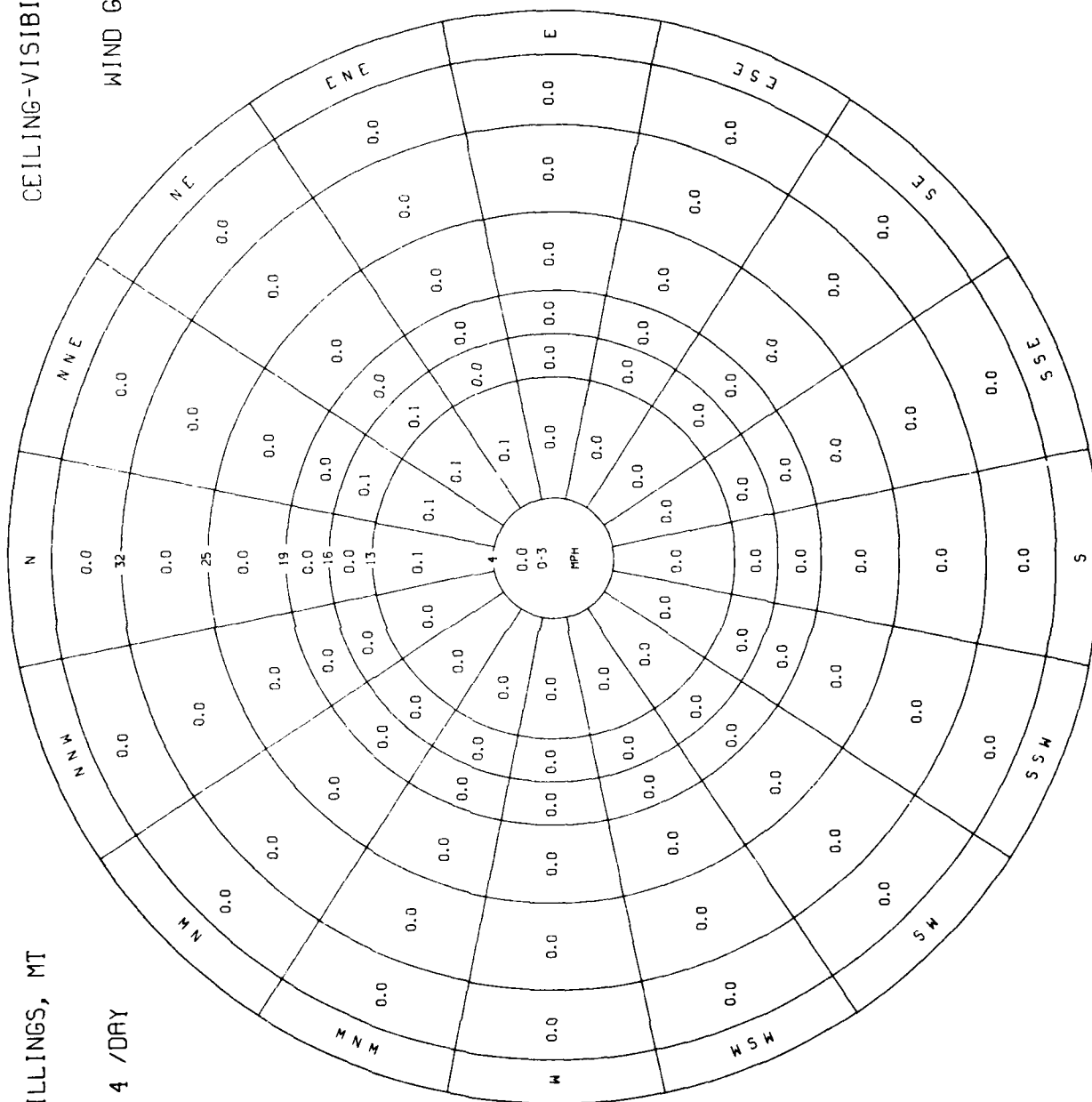
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	1.0	.4	9.0	.1	2.6	.1	1.8	.0	.6	.0	.5	.0	.0	.6	15.5	11.0
NNE	.0	.6	.4	9.9	.2	4.1	.1	2.7	.1	2.3	.0	.5	.0	.1	.8	20.1	12.6
NE	.0	.6	.6	14.4	.2	4.8	.2	4.0	.1	2.3	.0	.3	.0	.0	1.1	26.4	12.1
ENE	.0	.4	.2	5.7	.1	1.6	.0	1.0	.0	.4	.0	.1	.0	.0	.4	9.3	10.9
E	.0	.3	.1	2.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.5	7.4
ESE	.0	.3	.0	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	6.6
SE	.0	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	5.3
SSE	.0	.2	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	6.3
S	.0	.3	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	5.8
SSW	.0	.3	.1	1.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.8	6.9
SW	.0	.3	.1	2.9	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.1	3.6	8.0
WSW	.0	.2	.1	1.6	.0	.6	.0	.1	.0	.1	.0	.1	.0	.0	.1	2.8	10.5
W	.0	.3	.0	.9	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	1.3	7.1
WNW	.0	.3	.0	1.0	.0	.1	.0	.0	.0	.3	.0	.3	.0	.0	.1	2.0	12.0
NW	.0	.3	.1	2.3	.0	.6	.0	.6	.0	.4	.0	.3	.0	.1	.2	4.6	12.7
NNW	.0	.1	.1	2.4	.0	.9	.0	.7	.0	.6	.0	.1	.0	.0	.2	4.6	12.3
CALM	.1	1.9													.1	1.9	
TOTAL	.3	7.6	2.3	56.1	.7	15.9	.5	11.2	.3	7.0	.1	2.1	.0	.1	4.1	100	11.0

CEILING-VISIBILITY

WIND GRAPH

BIL BILLINGS, MT

CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EIL BILLINGS, MT

PERIOD: 1948-1978

CLASS 4 / DAY

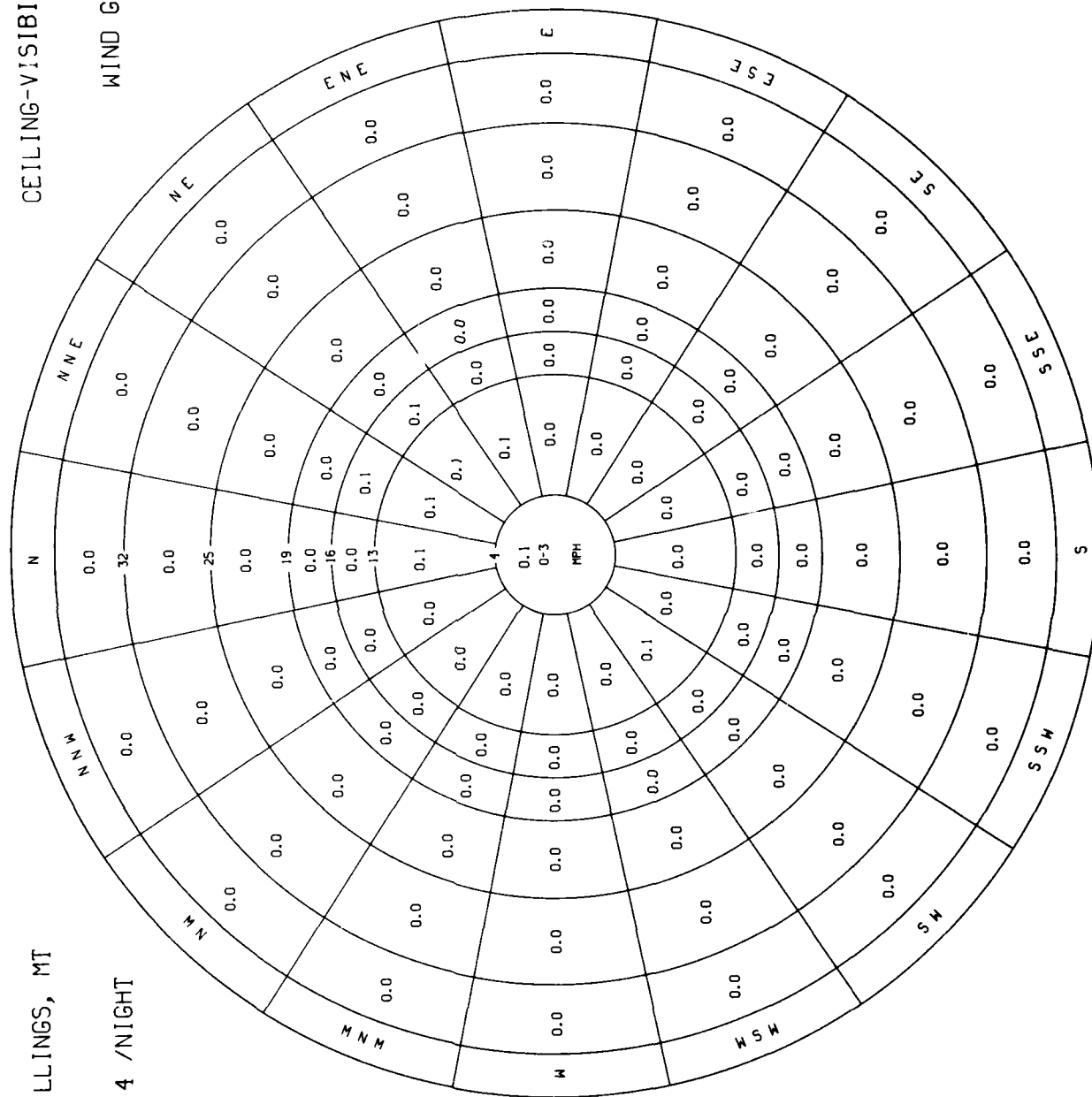
STATION NUMBER: 24033

NO. OBS.: 566

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.1	6.4	.0	2.3	.0	1.4	.0	2.3	.0	.5	.0	.0	.1	12.9	13.5
NNE	.0	.2	.1	10.4	.1	6.0	.0	4.6	.0	4.2	.0	.7	.0	.0	.3	26.1	14.0
NE	.0	.5	.1	11.8	.1	5.8	.0	4.1	.0	3.2	.0	.5	.0	.0	.3	26.0	13.4
ENE	.0	.2	.1	7.4	.0	2.5	.0	.5	.0	.0	.0	.2	.0	.0	.1	10.8	10.6
E	.0	.2	.0	3.2	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	3.7	8.0
ESE	.0	.0	.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	9.8
SE	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	7.5
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.2	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	5.5
SSW	.0	.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	4.2
SW	.0	.2	.0	3.2	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	3.9	9.0
WSW	.0	.5	.0	1.2	.0	.2	.0	.4	.0	.4	.0	.2	.0	.2	.0	3.0	12.3
W	.0	.4	.0	.5	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.1	9.2
WNW	.0	.4	.0	.4	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	1.1	12.0
NW	.0	.0	.0	1.6	.0	.4	.0	.4	.0	.9	.0	.9	.0	.0	.0	4.1	16.9
NNW	.0	.2	.0	1.6	.0	.5	.0	.4	.0	.4	.0	.2	.0	.0	.0	3.2	12.2
CALM	.0	1.1													.0	1.1	
TOTAL	.0	4.2	.5	50.2	.2	18.2	.1	12.2	.1	11.7	.0	3.4	.0	.2	.1	100	12.6

CEILING-VISIBILITY

WIND GRAPH



BIL BILLINGS, MT

CLASS 4 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: BIL BILLINGS, MT

PERIOD: 1948-1978

CLASS 4 / NIGHT

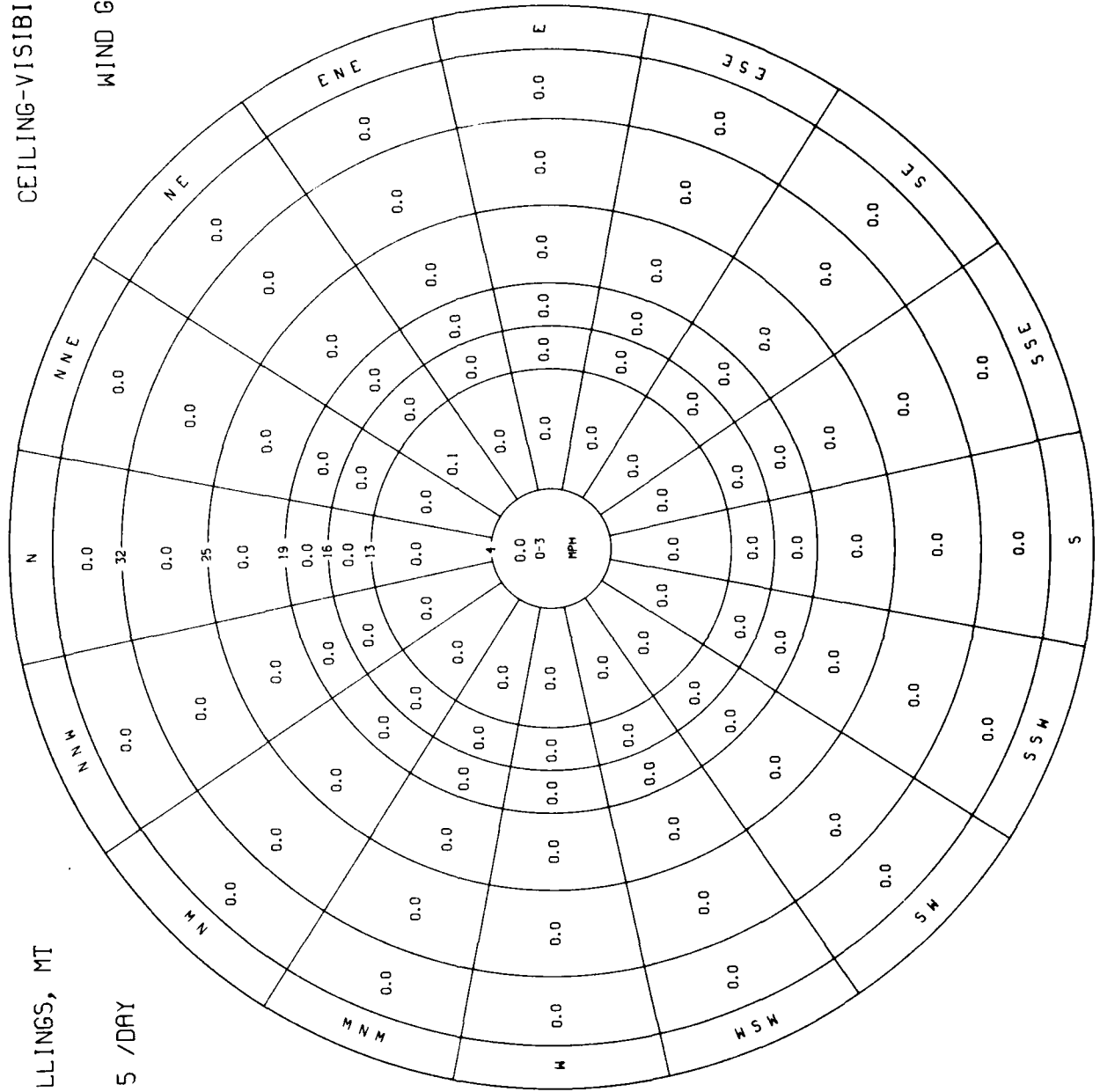
STATION NUMBER: 24033

NO. OBS.: 446

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D		
N	.0	.2	.1	11.4	.0	2.7	.0	2.0	.0	1.3	.0	.7	.0	.2	.2	18.6	12.2
NNE	.0	.2	.1	9.2	.1	5.6	.0	2.9	.0	3.1	.0	1.1	.0	.0	.3	22.2	13.9
NE	.0	.4	.1	12.6	.1	5.6	.0	4.0	.0	1.3	.0	.2	.0	.0	.3	24.2	12.2
ENE	.0	.0	.1	5.8	.0	1.8	.0	.9	.0	.4	.0	.2	.0	.0	.1	9.2	11.2
E	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	8.0
ESE	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	5.7
SE	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.0
SSE	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	4.7
S	.0	.2	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	5.8
SSW	.0	.7	.0	1.6	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.7	8.1
SW	.0	.2	.1	4.3	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.1	5.2	8.8
WSW	.0	.9	.0	1.8	.0	.0	.0	.4	.0	.0	.0	.2	.0	.0	.0	3.4	8.9
W	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	15.0
WNW	.0	.2	.0	.7	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	1.3	11.3
NW	.0	.0	.0	1.1	.0	.7	.0	.4	.0	.7	.0	.2	.0	.0	.0	3.1	14.9
NNW	.0	.4	.0	1.6	.0	.0	.0	.7	.0	.4	.0	.2	.0	.0	.0	3.4	12.3
CALM	.0	2.2												.0	2.2		
TOTAL	.1	6.5	.6	53.4	.2	17.3	.1	11.9	.1	7.8	.0	2.9	.0	.2	1.2	100	11.6

CEILING-VISIBILITY

WIND GRAPH



BIL BILLINGS, MT

CLASS 5 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: BIL BILLINGS, MT

PERIOD: 1948-1978

CLASS 5 / DAY

STATION NUMBER: 24033

NO. OBS.: 152

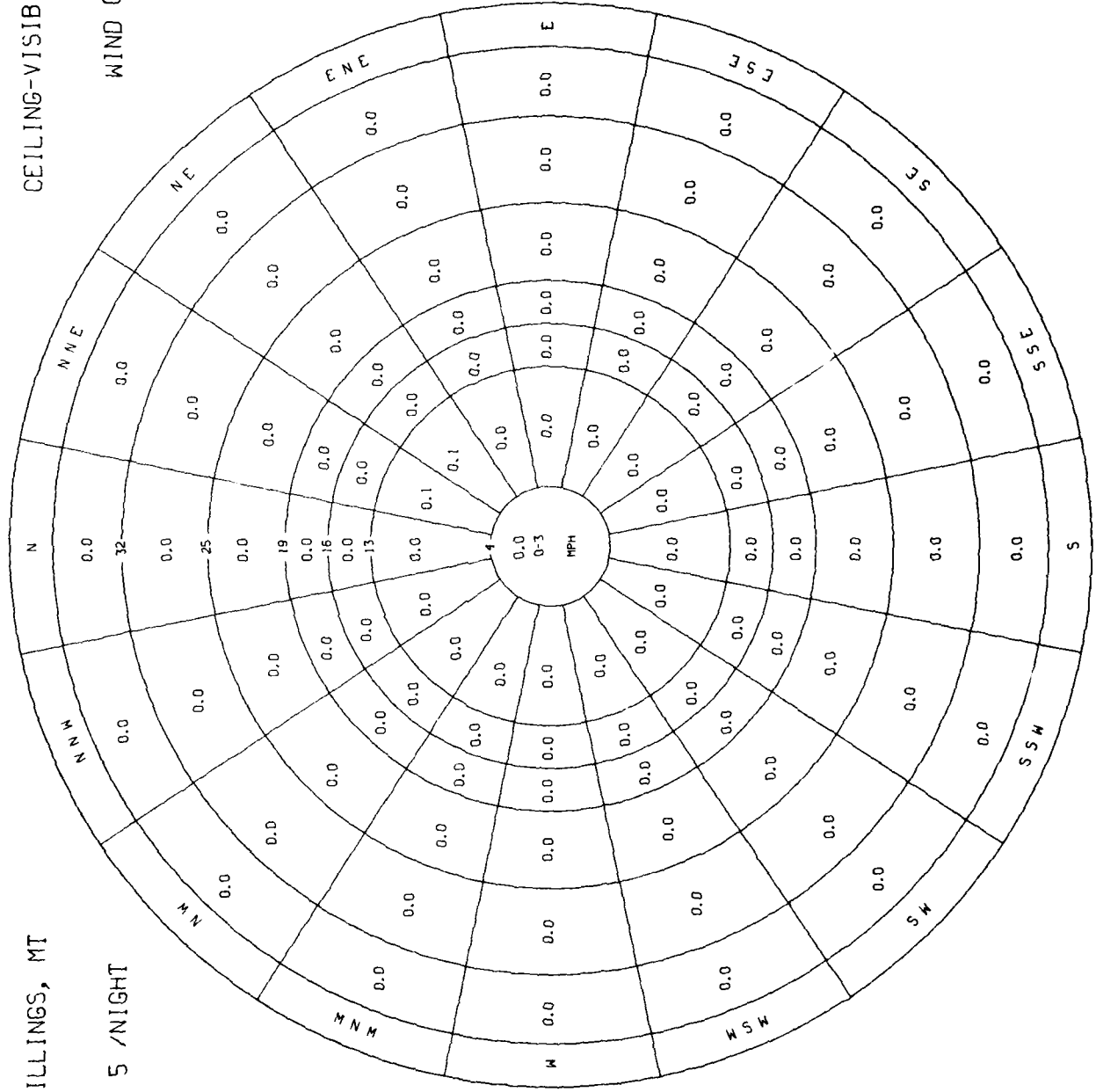
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.3	.0	8.6	.0	2.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0 13.8
NNE	.0	1.3	.0	7.9	.0	4.6	.0	1.3	.0	2.0	.0	1.3	.0	.7	.1 19.1
NNE	.0	1.3	.1	19.1	.0	5.3	.0	2.0	.0	2.0	.0	.7	.0	.0	.1 30.3
ENE	.0	.0	.0	5.3	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.9
E	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.3
ESE	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .7
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
SSE	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .7
S	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.3
SSW	.0	.7	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.9
SW	.0	.7	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.6
WSW	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0 2.0
W	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .7
WNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
NW	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.7	.0 3.3
NNW	.0	.7	.0	.7	.0	1.3	.0	.7	.0	.7	.0	1.3	.0	.7	.0 5.9
CALM	.0	4.6													.0 4.6
TOTAL	.0	11.8	.2	56.6	.0	13.8	.0	5.9	.0	4.6	.0	4.6	.0	2.6	.3 100

CEILING-VISIBILITY

WIND GRAPH

BIL BILLINGS, MT

CLASS 5 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: BIL BILLINGS, MT

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 24033

NO. OBS.: 166

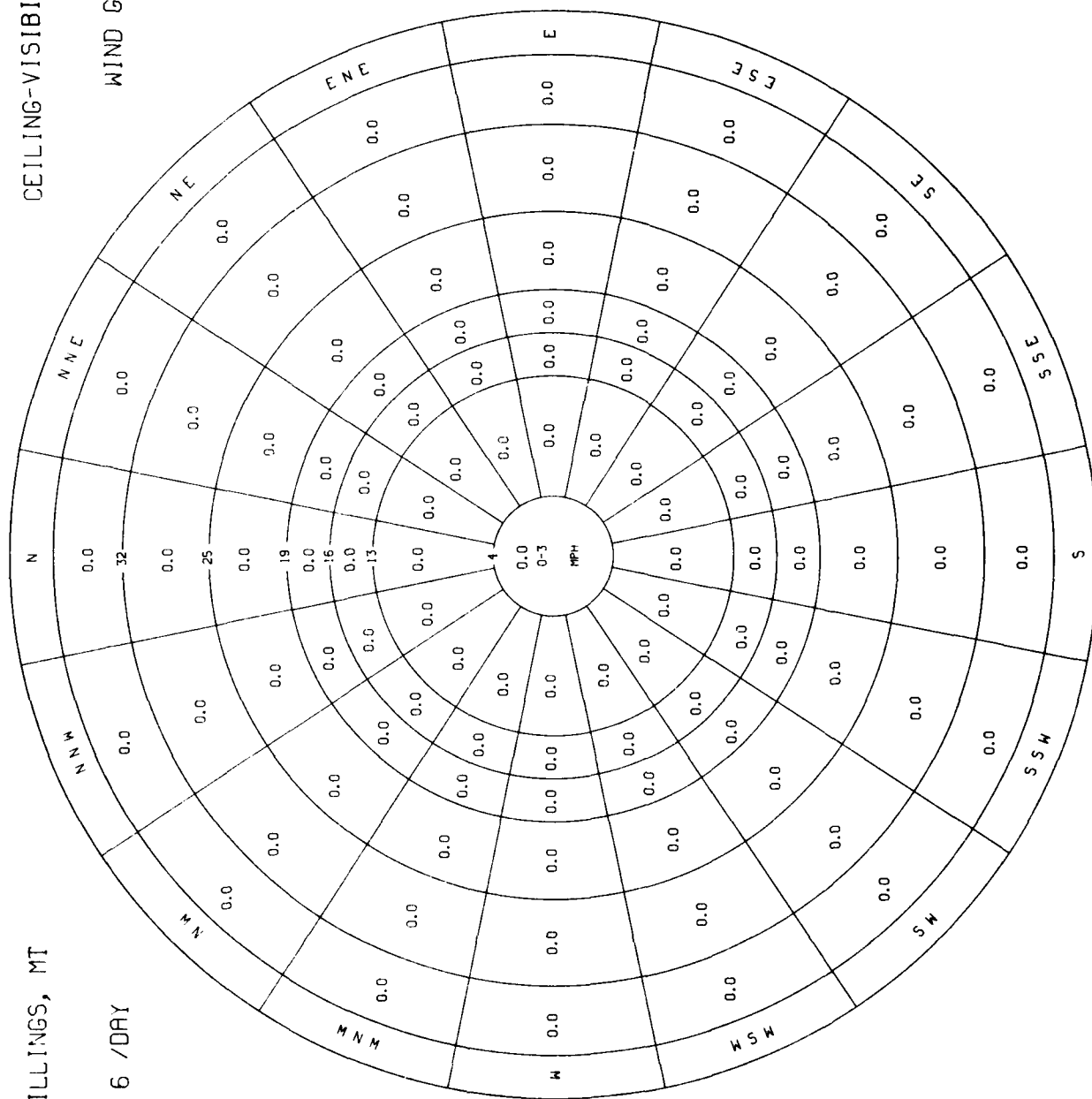
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	2.4	.0	9.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.1 12.7
NNE	.0	.6	.1 13.3		.0	3.6	.0	3.6	.0	1.2	.0	1.2	.0	.0	.1 23.5
NE	.0	.0	.1 16.3		.0	3.0	.0	6.6	.0	1.2	.0	.0	.0	.0	.1 27.1
ENE	.0	.0	.0 3.6		.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0 4.8
E	.0	.0	.0 1.2		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
ESE	.0	.0	.0 .0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
SE	.0	.0	.0 .0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
SSE	.0	.0	.0 .0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
S	.0	.6	.0 2.4		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.0
SSW	.0	1.2	.0 8.4		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 9.6
SW	.0	1.2	.0 5.4		.0	1.2	.0	.6	.0	.0	.0	.0	.0	.0	.0 8.4
WSW	.0	.0	.0 1.2		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
W	.0	.6	.0 1.8		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
WNW	.0	.6	.0 .0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.0
NW	.0	.0	.0 1.8		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.8
NNW	.0	.6	.0 1.2		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.8
CALM	.0	1.8													.0 1.8
TOTAL	.0	9.6	.3 65.7		.0	9.6	.0 10.8		.0 3.0		.0 1.2		.0 .0	.4 100	9.6

CEILING-VISIBILITY

WIND GRAPH

BIL BILLINGS, MT

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: BIL BILLINGS, MT

PERIOD: 1948-1978

CLASS 6 / DAY

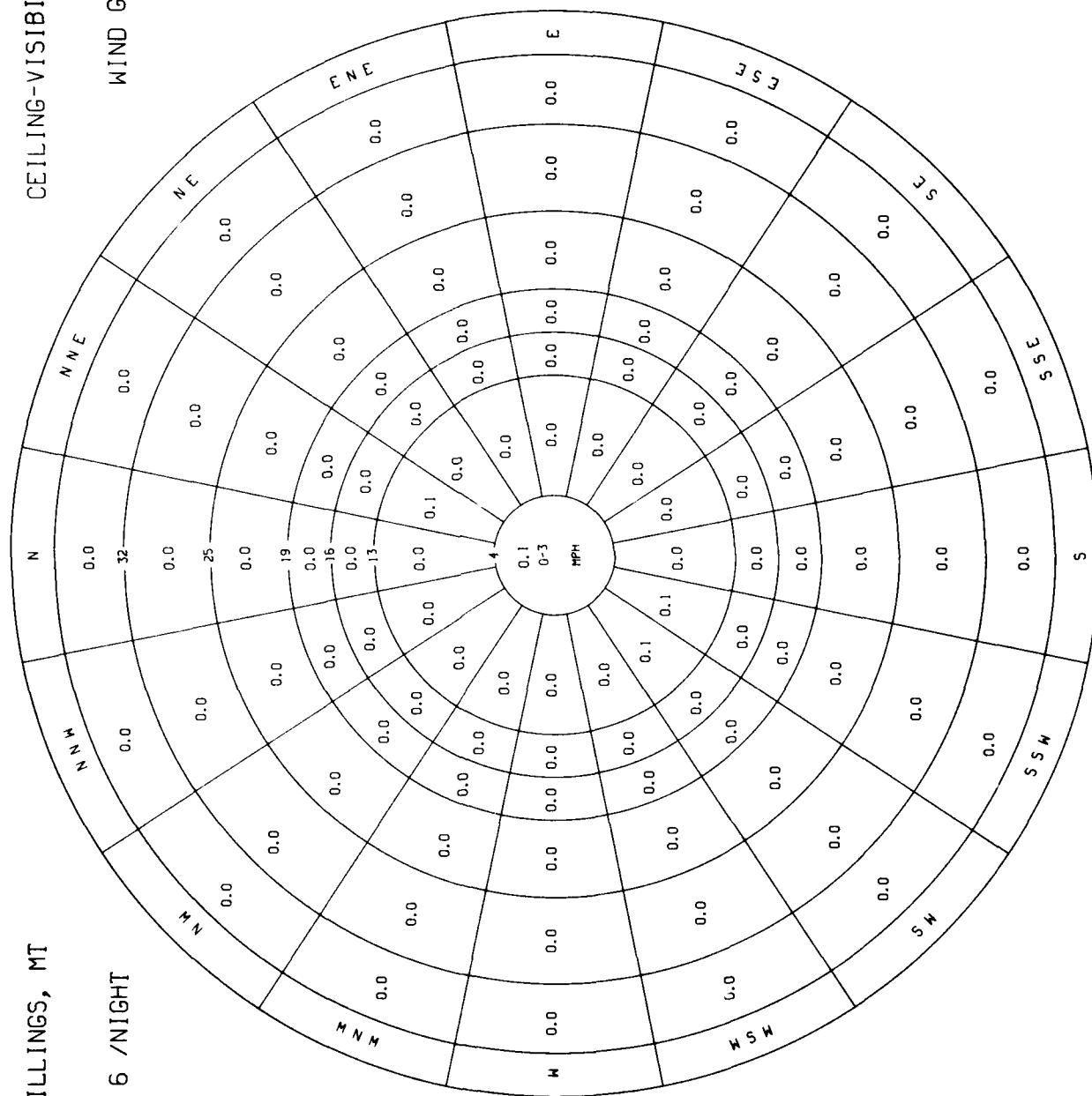
STATION NUMBER: 24033

NO. OBS.: 181

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.6	.0	6.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2
NNE	.0	.6	.0	12.7	.0	3.9	.0	.6	.0	1.7	.0	.0	.0	.0	19.3
NE	.0	1.1	.0	12.2	.0	2.8	.0	2.2	.0	1.1	.0	.6	.0	.0	19.9
ENE	.0	.6	.0	5.5	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	6.6
E	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
ESE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	1.1	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	1.7	.0	8.8	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	2.8
SW	.0	.6	.0	11.0	.0	2.2	.0	.0	.0	1.1	.0	.0	.0	.0	11.6
WSW	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.9
W	.0	1.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0
WNW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.7
NW	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7
NNW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	2.2
CALM	.0	3.9													1.7
TOTAL	.0	12.7	.2	66.9	.0	9.9	.0	3.3	.0	4.4	.0	1.7	.0	1.1	3.9
													.0	1.1	100
															9.1

BIL BILLINGS, MT

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: BIL BILLINGS, MT

CLASS 6 / NIGHT

NO. OBS.: 197

STATION NUMBER: 24033

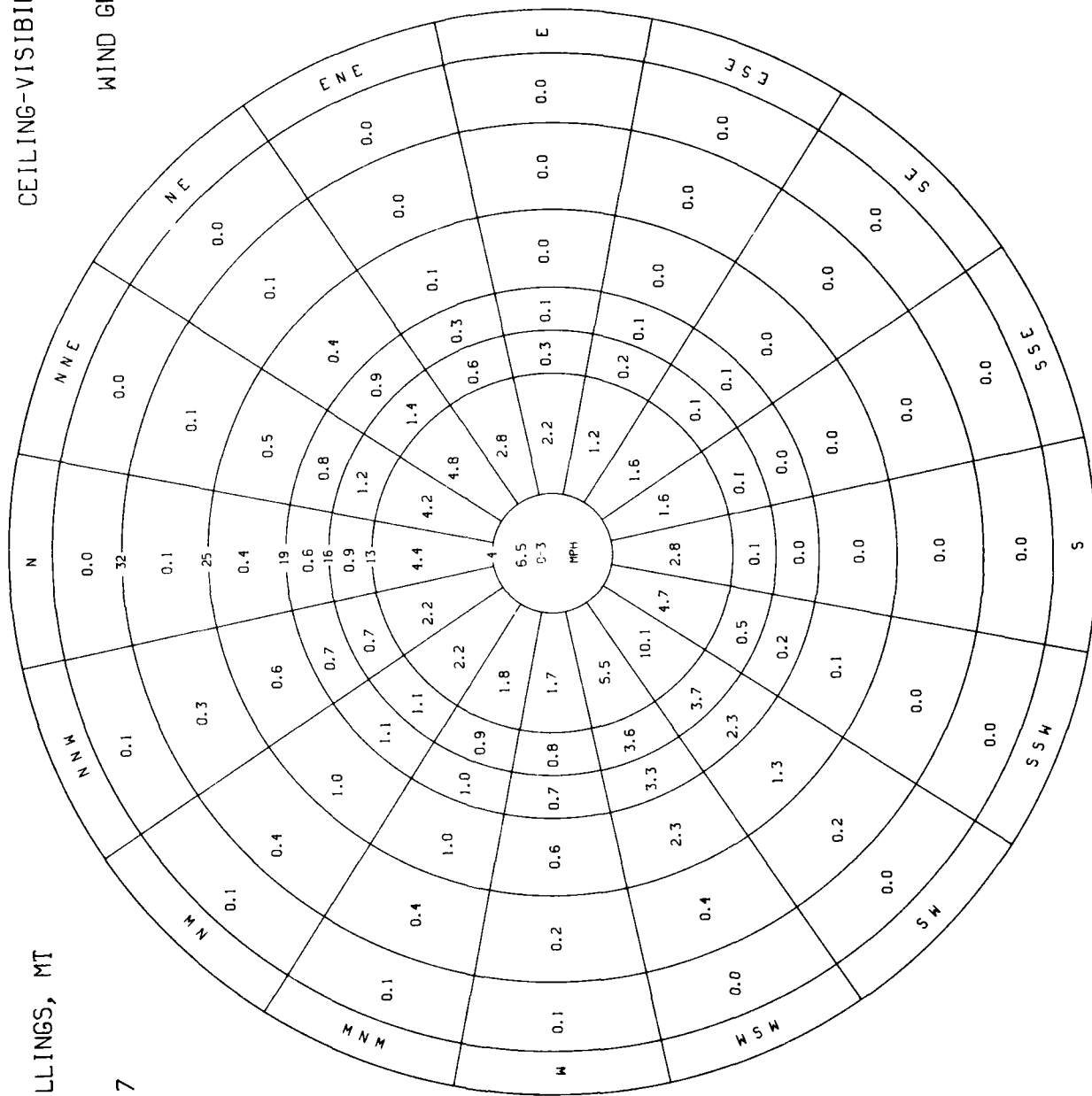
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.5	.0	5.6	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 9.1
NNE	.0	1.5	.1	10.7	.0	3.0	.0	2.0	.0	.5	.0	.0	.0	.0	.1 17.8
NE	.0	.5	.0	8.6	.0	4.1	.0	1.0	.0	.5	.0	.0	.0	.0	.1 15.2
ENE	.0	.0	.0	4.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.1
E	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.0
ESE	.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.5
SE	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.0
SSE	.0	1.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.5
S	.0	1.5	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.6
SSW	.0	2.0	.1	9.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 11.7
SW	.0	2.0	.1	15.2	.0	.5	.0	.0	.0	.0	.0	.5	.0	.0	.1 18.3
WSW	.0	.5	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
WNW	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .5
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
NNW	.0	.5	.0	2.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0 3.0
CALM	.0	5.6													.0 5.6
TOTAL	.1	19.3	.3	65.0	.1	10.2	.0	3.0	.0	1.5	.0	1.0	.0	.0	.5 100
															.0 8.0

CEILING-VISIBILITY

WIND GRAPH

BIL BILLINGS, MT

CLASS 7

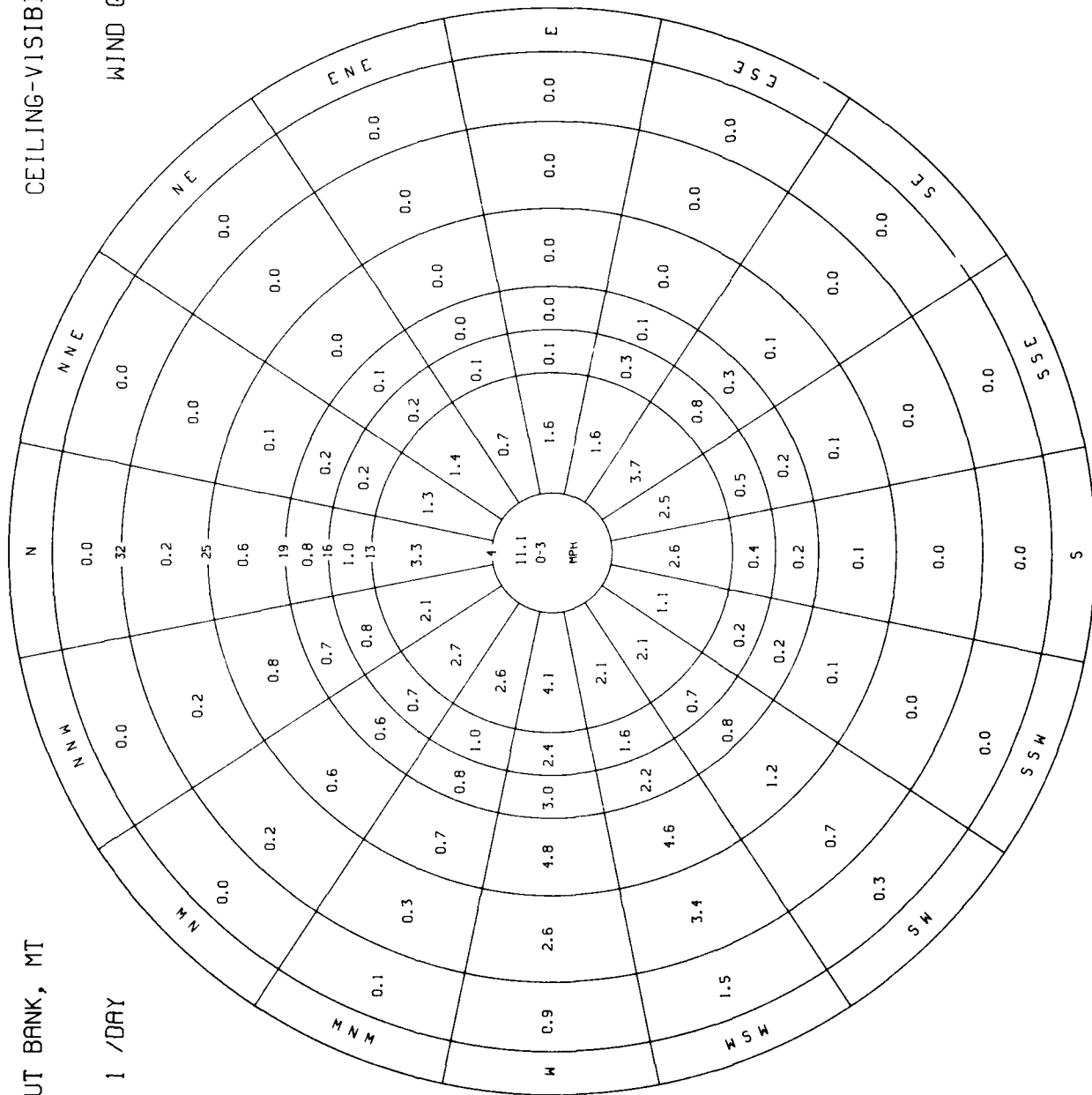


CEILING-VISIBILITY

WIND GRAPH

CTB CUT BANK, MT

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: CTB CUT BANK, MT

CLASS 1 / DAY

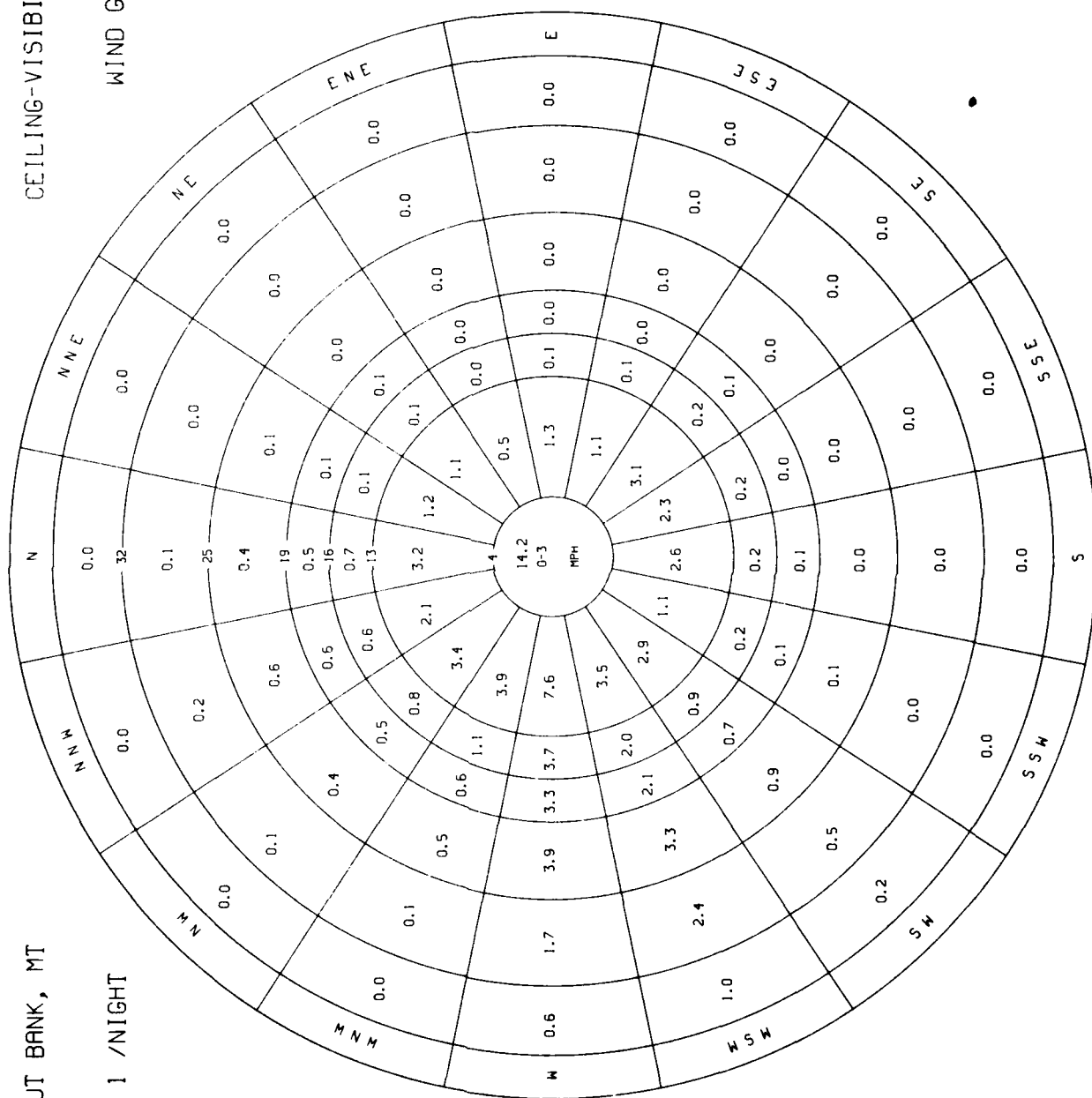
NO. OBS.: 48794

STATION NUMBER: 24137

D I R	SPEED GROUPS (MPH)																					AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL							
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D						
N	.8	.9	3.3	3.6	1.0	1.1	.8	.9	.6	.7	.2	.2	.0	.0	6.7	7.3	11.2					
NNE	.3	.4	1.3	1.4	.2	.2	.2	.2	.1	.1	.0	.0	.0	.0	2.2	2.3	9.2					
NE	.7	.7	1.4	1.5	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.3	2.5	7.0					
ENE	.1	.2	.7	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.0	7.8					
E	.6	.6	1.6	1.7	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.4	2.6	7.3					
ESE	.3	.3	1.6	1.7	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.3	2.5	8.7					
SE	.9	1.0	3.7	4.0	.8	.8	.3	.3	.1	.1	.0	.0	.0	.0	5.7	6.2	8.7					
SSE	.3	.3	2.5	2.7	.5	.5	.2	.3	.1	.1	.0	.0	.0	.0	3.6	3.9	9.7					
S	.6	.6	2.6	2.8	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	3.8	4.1	8.6					
SSW	.2	.2	1.1	1.2	.2	.3	.2	.2	.1	.1	.0	.0	.0	.0	1.8	2.0	10.2					
SW	.5	.6	2.1	2.2	.7	.7	.8	.8	1.2	1.3	.7	.8	.3	.4	6.3	6.9	15.8					
WSW	.2	.2	2.1	2.3	1.6	1.8	2.2	2.4	4.6	5.0	3.4	3.7	1.5	1.6	15.7	17.0	21.1					
W	.4	.4	4.1	4.4	2.4	2.6	3.0	3.3	4.8	5.2	2.6	2.8	.9	.9	18.2	19.7	18.0					
WNW	.2	.3	2.6	2.8	1.0	1.0	.8	.8	.7	.7	.3	.3	.1	.1	5.6	6.1	13.2					
NW	.6	.7	2.7	3.0	.7	.8	.6	.7	.6	.7	.2	.2	.0	.0	5.6	6.0	11.7					
NNW	.2	.3	2.1	2.3	.8	.9	.7	.7	.8	.8	.2	.2	.0	.0	4.8	5.2	13.5					
CALM	4.3	4.7													4.3	4.7						
TOTAL	11.1	12.1	35.4	38.4	11.1	12.0	10.1	10.9	14.0	15.2	7.7	8.3	2.9	3.1	92.2	100	13.6					

CEILING-VISIBILITY

WIND GRAPH



CTB CUT BANK, MT

CLASS 1 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CTB CUT BANK, MT

PERIOD: 1948-1978

CLASS 1 / NIGHT

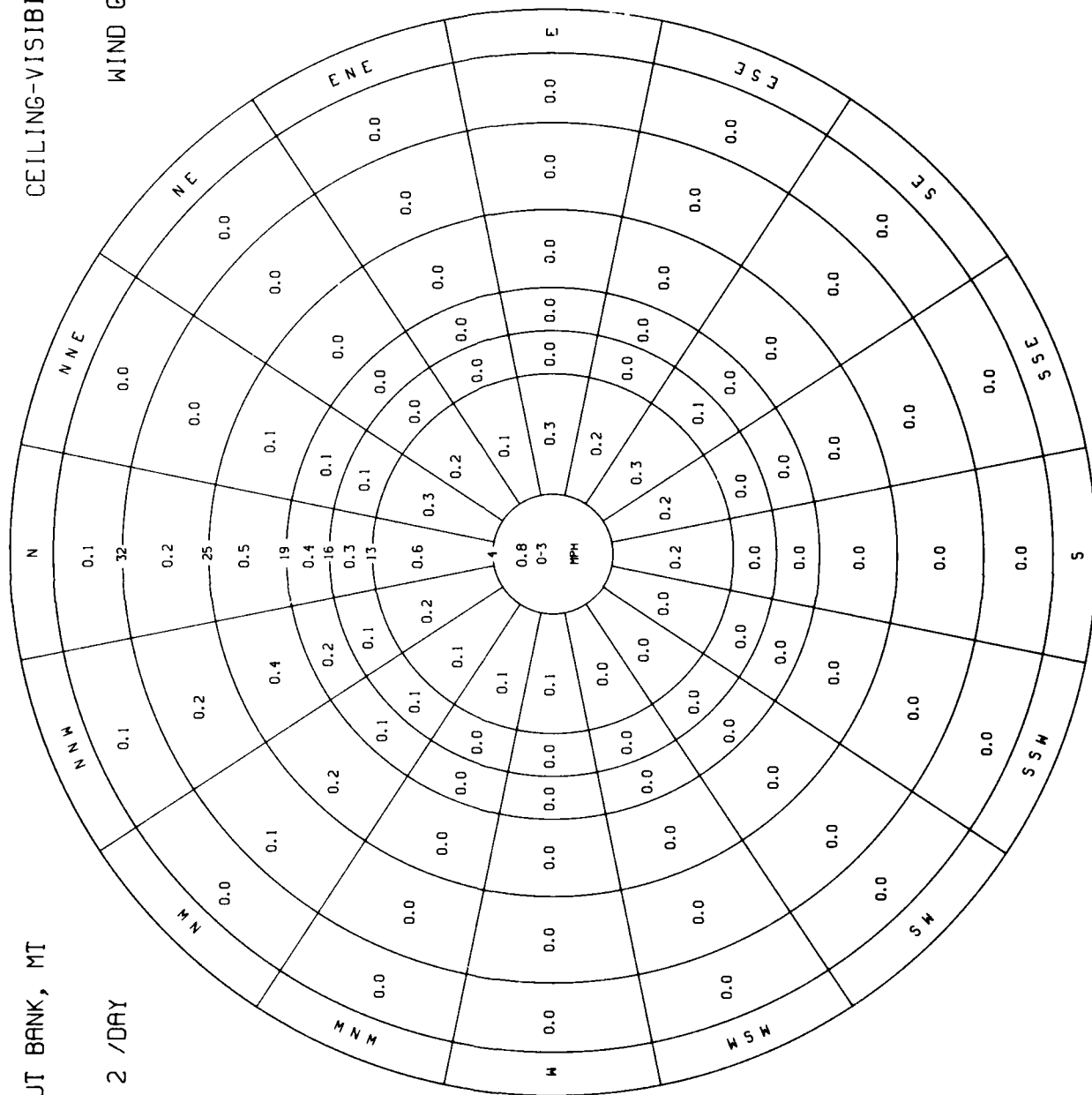
STATION NUMBER: 24137

NO. OBS.: 34623

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.9	1.0	3.2	3.5	.7	.7	.5	.5	.4	.5	.1	.1	.0	.0	5.9 6.4
NNE	.3	.3	1.2	1.3	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	1.7 1.9
NNE	.6	.6	1.1	1.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	1.8 1.9
ENE	.1	.1	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6 .7
E	.4	.5	1.3	1.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.8 2.0
ESE	.2	.2	1.1	1.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.5 1.6
SE	1.0	1.0	3.1	3.4	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	4.4 4.8
SSE	.3	.3	2.3	2.5	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	2.8 3.1
S	.7	.7	2.6	2.8	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.6 3.9
SSW	.2	.2	1.1	1.2	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	1.7 1.9
SW	.7	.8	2.9	3.2	.9	.9	.7	.7	.9	.9	.5	.5	.2	.2	6.7 7.3
WSW	.2	.2	3.5	3.8	2.0	2.2	2.1	2.3	3.3	3.6	2.4	2.6	1.0	1.0	14.5 15.7
W	.7	.7	7.6	8.3	3.7	4.1	3.3	3.6	3.9	4.2	1.7	1.8	.6	.7	21.5 23.4
WNW	.3	.4	3.9	4.2	1.1	1.2	.6	.7	.5	.5	.1	.1	.0	.0	6.5 7.1
NW	.9	1.0	3.4	3.7	.8	.9	.5	.5	.4	.4	.1	.1	.0	.0	6.1 6.7
NNW	.2	.2	2.1	2.2	.6	.7	.6	.6	.6	.6	.2	.2	.0	.0	4.3 4.7
CALM	6.5	7.1													6.5 7.1
TOTAL	14.2	15.4	41.0	44.6	11.0	12.0	8.7	9.4	10.1	11.0	5.1	5.6	1.9	2.1	91.9 100

CEILING-VISIBILITY WIND GRAPH

CTB CUT BANK, MT
CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: CTB CUT BANK, MT

CLASS 2 / DAY

NO. OBS.: 4100

STATION NUMBER: 24137

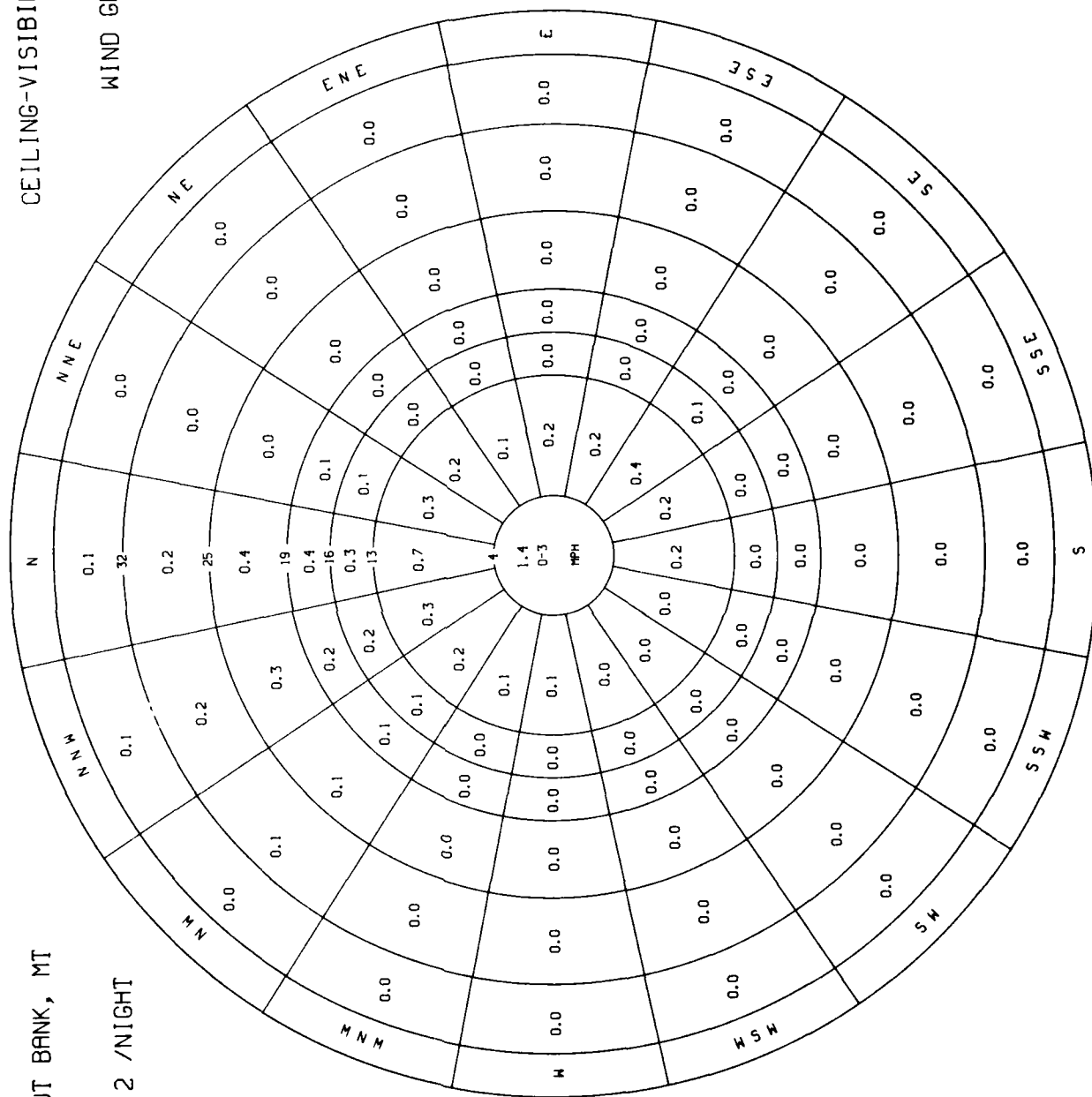
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.6	.6	7.9	.3	4.5	.4	4.9	.5	6.5	.2	2.6	.1	.7	2.1	27.7	16.5
NNE	.0	.2	.3	3.8	.1	1.3	.1	1.1	.1	.7	.0	.1	.0	.0	.6	7.1	12.5
NE	.0	.5	.2	2.5	.0	.5	.0	.4	.0	.2	.0	.1	.0	.0	.3	4.3	10.2
ENE	.0	.1	.1	1.7	.0	.3	.0	.1	.0	.1	.0	.1	.0	.0	.2	2.4	10.1
E	.0	.6	.3	3.8	.0	.6	.0	.3	.0	.1	.0	.0	.0	.0	.4	5.4	9.0
ESE	.0	.5	.2	2.9	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.3	4.0	8.5
SE	.1	1.2	.3	4.2	.1	.9	.0	.3	.0	.0	.0	.0	.0	.0	.5	6.6	8.1
SSE	.0	.2	.2	2.2	.0	.6	.0	.2	.0	.0	.0	.0	.0	.0	.3	3.3	9.3
S	.0	.5	.2	2.2	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.2	3.0	7.6
SSW	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	6.8
SW	.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	9.6
WSW	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	.0	.1	.0	.4	.1	.9	28.7
W	.0	.0	.1	.7	.0	.2	.0	.2	.0	.3	.0	.2	.0	.3	.1	1.9	19.5
WNW	.0	.1	.1	.7	.0	.2	.0	.4	.0	.6	.0	.5	.0	.0	.2	2.5	17.2
NW	.0	.1	.1	1.7	.1	1.0	.1	1.1	.2	2.2	.1	1.8	.0	.6	.7	8.5	19.2
NNW	.0	.2	.2	3.0	.1	1.9	.2	2.6	.4	4.9	.2	3.2	.1	1.0	1.3	16.8	19.6
CALM	.3	4.5													.3	4.5	
TOTAL	.8	9.7	2.9	38.0	1.0	12.7	.9	11.8	1.2	15.9	.7	8.7	.2	3.1	7.8	100	14.1

CEILING-VISIBILITY

WIND GRAPH

CTB CUT BANK, MT

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CTB CUT BANK, MT

PERIOD: 1948-1978

CLASS 2 / NIGHT

STATION NUMBER: 24137

NO. OBS.: 3032

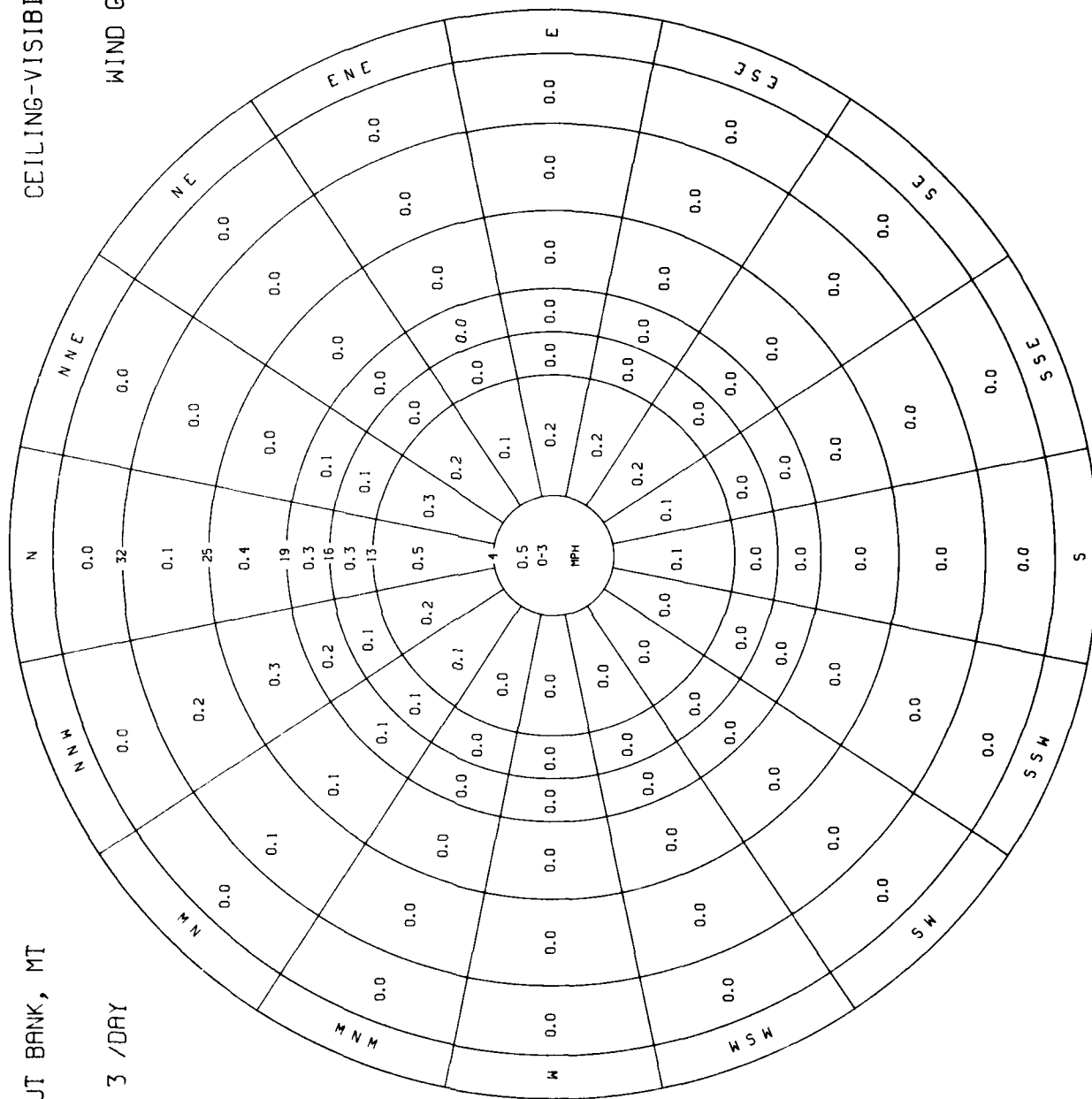
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.1	1.1	.7	8.6	.3	3.6	.4	4.6	.4	5.0	.2	2.3	.1	.8	2.1	25.9	15.6
NNE	.0	.4	.3	3.2	.1	1.4	.1	.7	.0	.4	.0	.2	.0	.0	.5	6.3	11.7
NNE	.1	1.1	.2	2.8	.0	.4	.0	.2	.0	.3	.0	.0	.0	.0	.4	4.8	8.7
ENE	.0	.3	.1	1.7	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.2	2.4	8.3
E	.1	.8	.2	2.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.3	4.0	7.4
ESE	.0	.4	.2	2.8	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.3	3.7	8.0
SE	.1	1.6	.4	4.8	.1	.9	.0	.4	.0	.0	.0	.0	.0	.0	.6	7.8	7.9
SSE	.0	.6	.2	3.1	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.3	4.2	8.0
S	.1	.7	.2	2.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.3	3.3	6.9
SSW	.0	.1	.0	.4	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.6	7.4
SW	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	8.0
WSW	.0	.1	.0	.3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.5	.1	1.1	24.4
W	.0	.3	.1	.7	.0	.2	.0	.1	.0	.2	.0	.1	.0	.4	.2	2.1	17.2
WNW	.0	.1	.1	.9	.0	.3	.0	.3	.0	.1	.0	.1	.0	.0	.2	1.9	12.8
NW	.0	.5	.2	2.0	.1	.9	.1	.8	.1	1.6	.1	.8	.0	.5	.6	7.0	16.7
NNW	.0	.2	.3	3.1	.2	2.1	.2	2.5	.3	4.0	.2	2.9	.1	1.0	1.3	15.7	19.2
CALM	.7	8.7													.7	8.7	
TOTAL	1.4	17.3	3.2	39.8	.9	11.3	.8	10.1	1.0	11.8	.5	6.4	.3	3.2	8.1	100	12.3

CEILING-VISIBILITY

WIND GRAPH

CTB CUT BANK, MT

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: CTB CUT BANK, MT

CLASS 3 / DAY

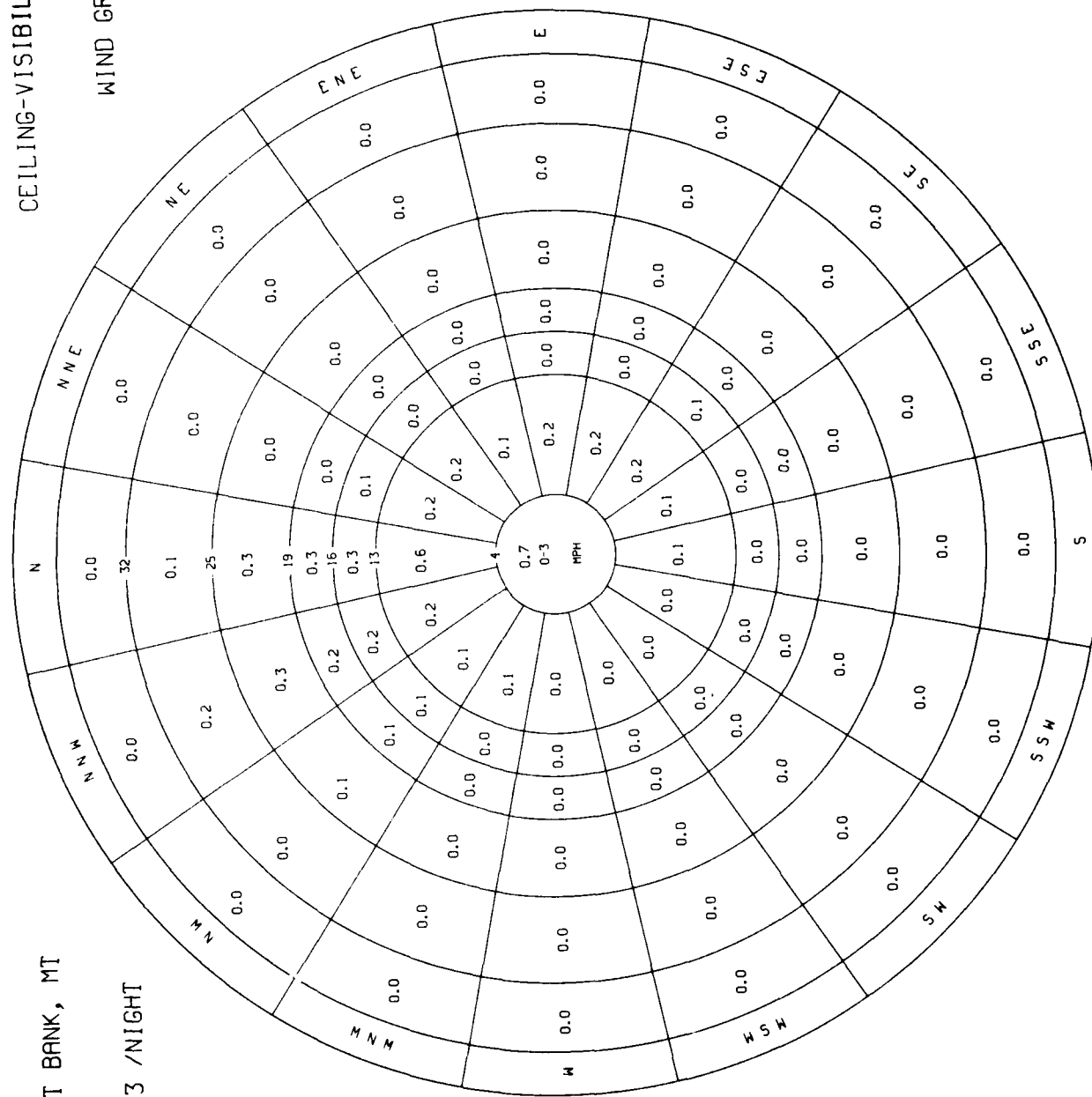
NO. OBS.: 3263

STATION NUMBER: 24137

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.6	.5	8.8	.3	5.1	.3	5.3	.4	6.5	.1	2.3	.0	.5	1.8	29.2	15.9
NNE	.0	.2	.3	4.2	.1	1.5	.1	1.3	.0	.7	.0	.1	.0	.0	.5	8.0	12.4
NE	.0	.5	.2	2.9	.0	.6	.0	.4	.0	.3	.0	.1	.0	.0	.3	4.7	10.2
ENE	.0	.2	.1	1.8	.0	.3	.0	.1	.0	.1	.0	.1	.0	.0	.2	2.6	10.0
E	.0	.6	.2	3.9	.0	.6	.0	.4	.0	.1	.0	.0	.0	.0	.3	5.6	9.1
ESE	.0	.4	.2	2.7	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.2	3.9	8.9
SE	.1	1.0	.2	3.7	.0	.7	.0	.3	.0	.0	.0	.0	.0	.0	.4	5.7	8.6
SSE	.0	.2	.1	1.8	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.2	2.8	9.9
S	.0	.3	.1	1.7	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.1	2.3	8.0
SSW	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	6.7
SW	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	8.7
WSW	.0	.1	.0	.1	.0	.0	.0	.0	.0	.2	.0	.1	.0	.2	.0	.7	25.6
W	.0	.0	.0	.6	.0	.2	.0	.2	.0	.2	.0	.2	.0	.2	.1	1.7	18.3
WNW	.0	.1	.0	.8	.0	.2	.0	.5	.0	.7	.0	.6	.0	.0	.2	2.9	17.1
NW	.0	.1	.1	1.7	.1	1.2	.1	1.3	.1	2.3	.1	1.7	.0	.4	.5	8.7	18.6
NNW	.0	.2	.2	3.4	.1	2.1	.2	3.0	.3	5.2	.2	2.9	.0	.5	1.1	17.2	18.7
CALM	.2	3.2													.2	3.2	
TOTAL	.5	7.7	2.4	38.6	.9	14.0	.8	13.5	1.0	16.5	.5	8.0	.1	1.8	6.2	100	14.1

CEILING-VISIBILITY

WIND GRAPH



CTB CUT BANK, MT

CLASS 3 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CIB CUT BANK, MT

PERIOD: 1948-1978

CLASS 3 / NIGHT

STATION NUMBER: 24137

NO. OBS.: 2199

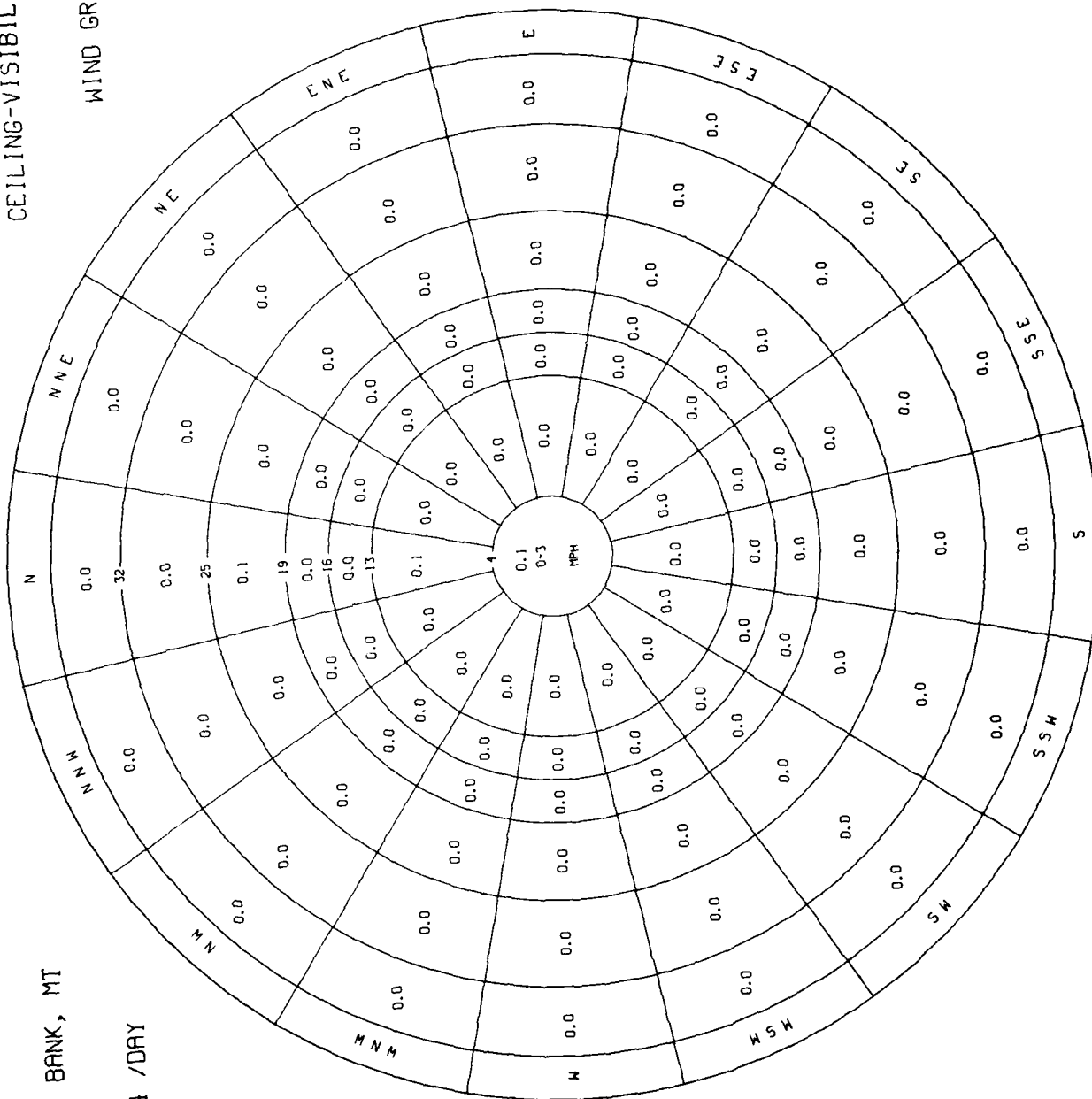
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			
N	.0	.8	.6	9.6	.3	4.3	.3	5.5	.3	5.7	.1	2.4	.0	.5	1.7	28.7	15.5
NNE	.0	.3	.2	3.6	.1	1.6	.0	.8	.0	.5	.0	.2	.0	.0	.4	7.0	11.9
NE	.1	1.0	.2	3.1	.0	.4	.0	.2	.0	.3	.0	.0	.0	.0	.3	5.0	8.2
ENE	.0	.4	.1	1.7	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.1	2.5	8.3
E	.0	.8	.2	2.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.2	4.0	7.1
ESE	.0	.4	.2	2.6	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.2	3.5	8.4
SE	.1	1.0	.2	4.1	.1	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.4	6.7	8.8
SSE	.0	.3	.1	2.3	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.2	3.1	8.6
S	.0	.4	.1	1.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.0	7.8
SSW	.0	.1	.0	.3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.5	8.5
SW	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	6.7
WSW	.0	.0	.0	.3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.5	.1	1.0	25.8
W	.0	.2	.0	.7	.0	.2	.0	.1	.0	.3	.0	.1	.0	.5	.1	2.1	18.4
WNW	.0	.0	.1	1.0	.0	.5	.0	.4	.0	.1	.0	.1	.0	.0	.1	2.1	13.1
NW	.0	.5	.1	2.5	.1	1.1	.1	.9	.1	2.0	.0	.8	.0	.4	.5	8.2	16.3
NNW	.0	.2	.2	3.5	.2	2.6	.2	3.0	.3	5.0	.2	3.0	.0	.2	1.0	17.5	18.2
CALM	.3	5.3													.3	5.3	
TOTAL	7	12.1	2	3	39	9	.8	13.4	.7	12.0	.8	14.1	.4	6.6	.1	1.9	13.0

CEILING-VISIBILITY

WIND GRAPH

CTB CUT BANK, MT

CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CTB CUT BANK, MT

PERIOD: 1948-1978

CLASS 4 / DAY

STATION NUMBER: 24137

NO. OBS.: 409

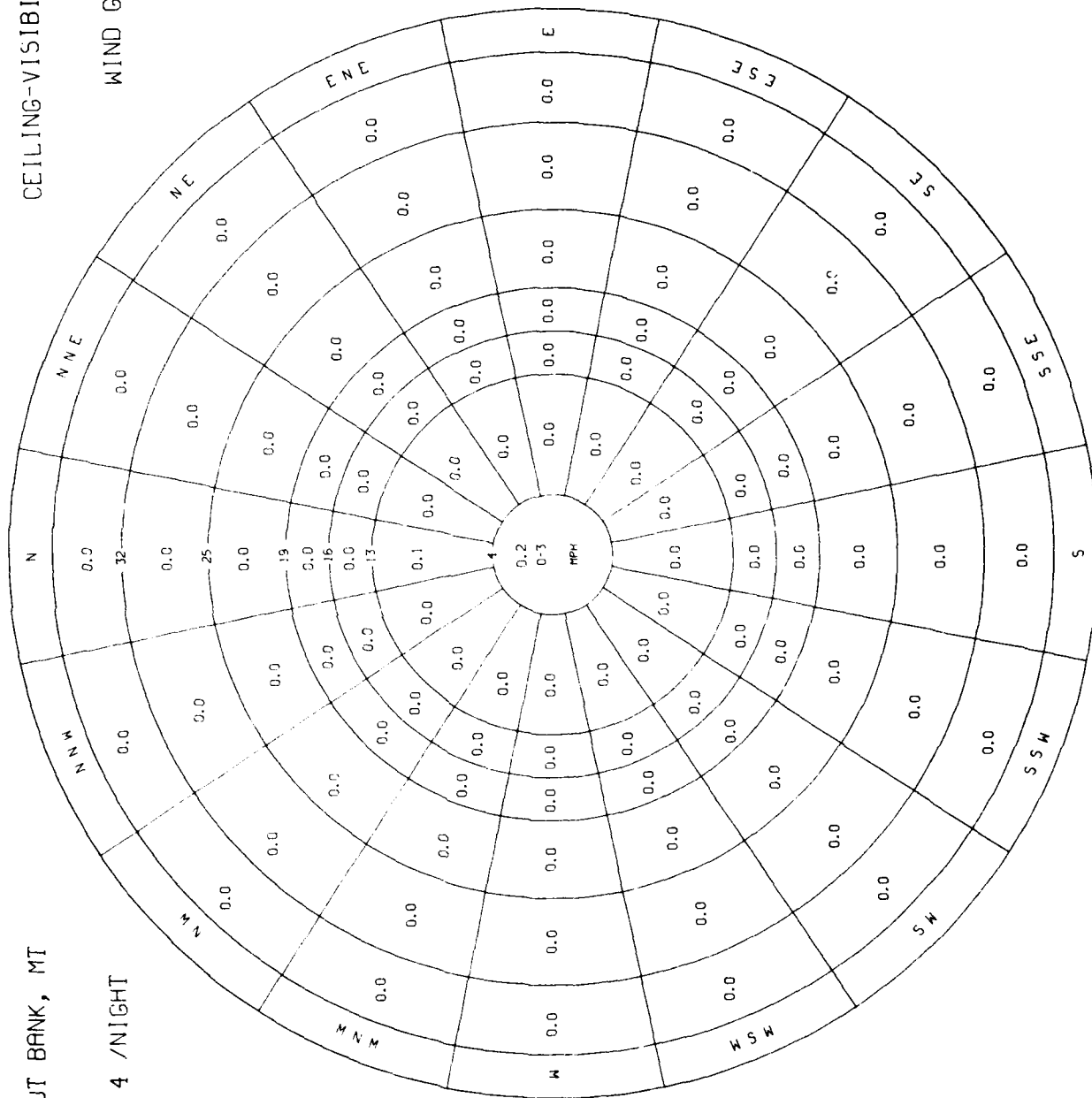
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.5	.1	7.3	.0	2.7	.0	4.6	.1	9.3	.0	2.7	.0	.5	.2 27.6
NNE	.0	.5	.0	2.9	.0	1.0	.0	.2	.0	1.0	.0	.2	.0	.0	.0 5.9
NE	.0	.2	.0	2.0	.0	.2	.0	.5	.0	.2	.0	.2	.0	.0	.0 3.4
ENE	.0	.0	.0	1.7	.0	.0	.0	.5	.0	.2	.0	.0	.0	.0	.0 2.4
E	.0	.2	.0	3.7	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0 4.6
ESE	.0	1.2	.0	3.4	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0 4.9
SE	.0	1.2	.0	4.6	.0	2.0	.0	.2	.0	.0	.0	.0	.0	.0	.1 8.1
SSE	.0	.0	.0	2.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
S	.0	.2	.0	2.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0 2.7
SSW	.0	.7	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0 1.5
SW	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .2
WSW	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	1.2	.0 1.5
W	.0	.0	.0	1.0	.0	.2	.0	.0	.0	.5	.0	.5	.0	.7	.0 2.9
WNW	.0	.0	.0	.5	.0	.5	.0	.0	.0	.2	.0	.2	.0	.2	.0 1.7
NW	.0	.2	.0	2.0	.0	.5	.0	.2	.0	2.4	.0	2.4	.0	.5	.1 8.3
NNW	.0	.2	.0	2.4	.0	2.0	.0	.7	.0	5.6	.0	5.1	.0	1.2	.1 17.4
CALM	.0	4.6													.0 4.6
TOTAL	.1	10.3	.3	35.9	.1	10.0	.1	7.6	.2	20.0	.1	11.5	.0	4.6	.8 100
															15.1

CEILING-VISIBILITY

WIND GRAPH

CTB CUT BANK, MT

CLASS 4 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: CTE CUT BANK, MT

CLASS 4 / NIGHT

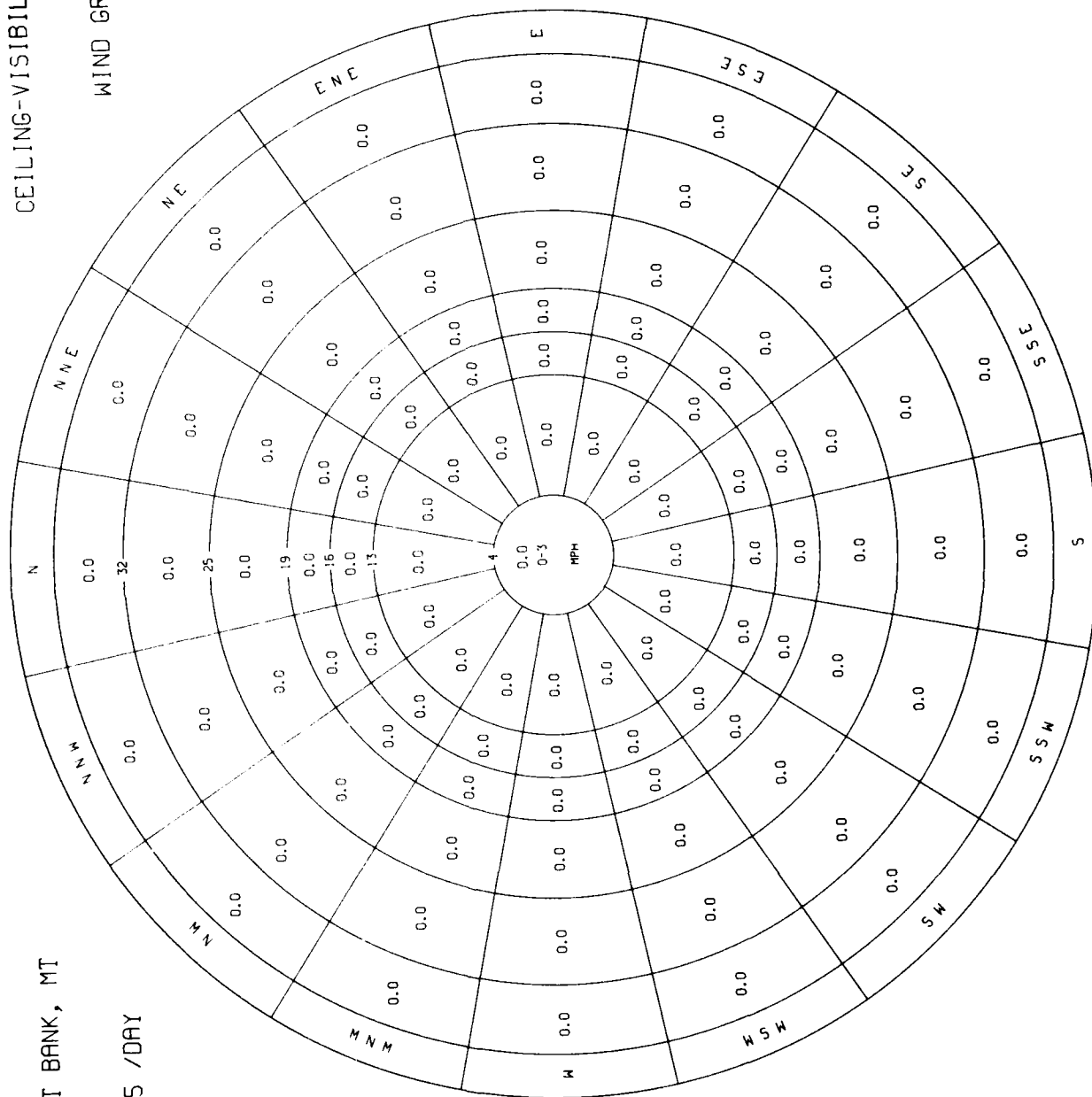
NO. OBS.: 340

STATION NUMBER: 24137

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
																C	D
N	.0	1.5	.1	6.5	.0	2.9	.0	4.7	.0	5.3	.0	3.5	.0	1.2	.2	25.6	16.8
NNE	.0	.6	.0	3.5	.0	1.2	.0	.9	.0	.3	.0	.0	.0	.0	.1	6.5	10.5
NE	.0	.6	.0	3.2	.0	.6	.0	.0	.0	.0	.0	.3	.0	.0	.0	4.7	9.6
ENE	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	1.8	11.0
E	.0	.9	.0	2.1	.0	1.2	.0	.0	.0	.3	.0	.0	.0	.0	.0	4.4	8.8
ESE	.0	.3	.0	2.9	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	3.5	8.6
SE	.0	2.1	.0	5.3	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.1	8.2	7.2
SSE	.0	.3	.0	3.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	8.4
S	.0	1.5	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.2	5.9
SSW	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	7.5
SW	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	29.0
WSW	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	1.8	35.7
W	.0	.3	.0	.6	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	2.1	13.7
WNW	.0	.6	.0	.6	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	1.8	10.0
NW	.0	.3	.0	.3	.0	.3	.0	.9	.0	.9	.0	1.5	.0	.9	.0	5.0	23.2
NNW	.0	.3	.0	2.1	.0	1.5	.0	1.2	.0	1.5	.0	3.5	.0	1.5	.1	11.5	20.9
CALM	.1	11.5													.1	11.5	
TOTAL	.2	20.6	.3	37.4	.1	9.7	.1	9.1	.1	8.8	.1	8.8	.1	5.6	.9	100	12.5

CEILING-VISIBILITY

WIND GRAPH



ANNUAL

PERIOD: 1948-1978

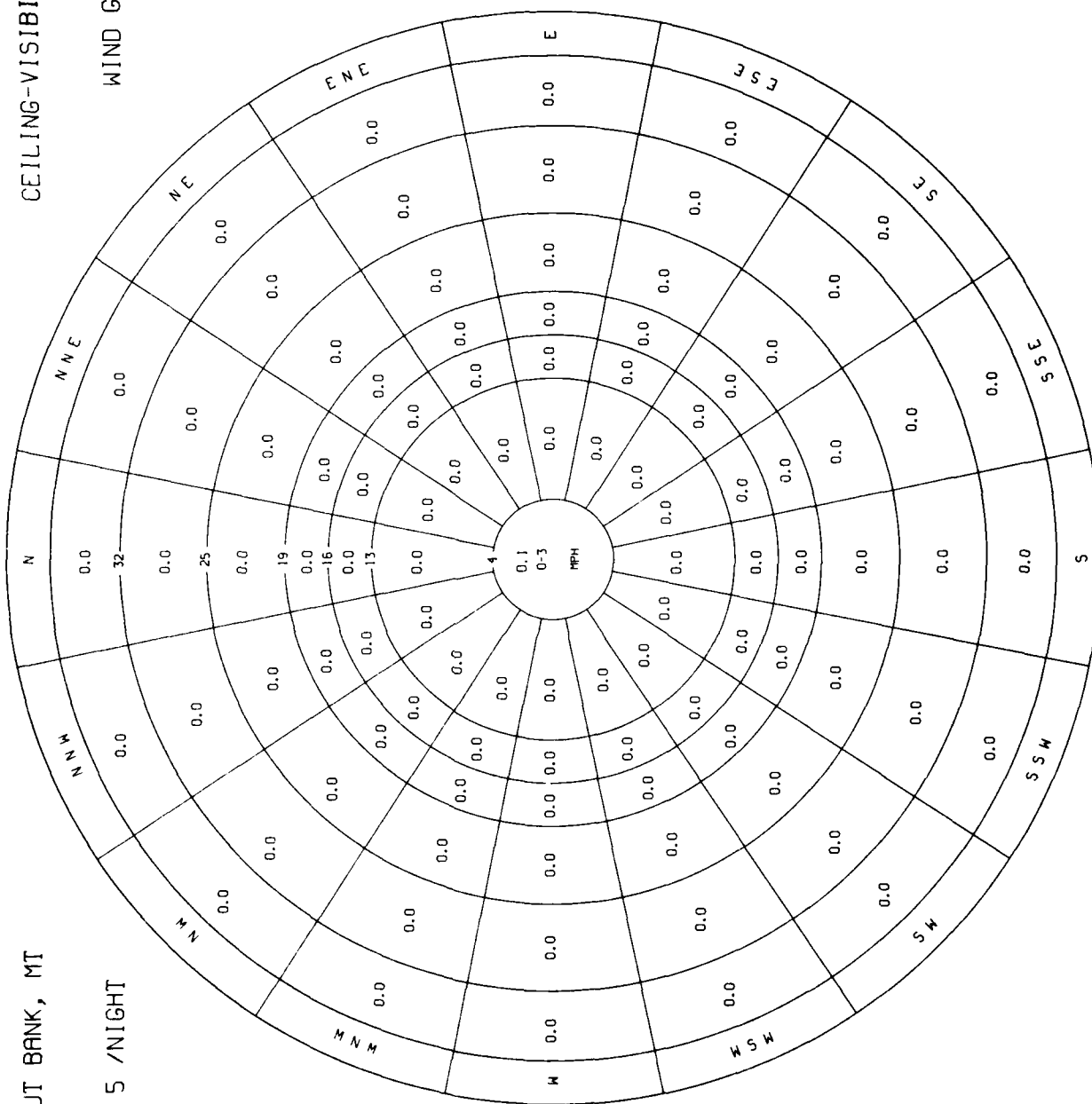
CLASS / 55670

NO. OBS.: 188

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.5	.0	1.6	.0	1.1	.0	3.7	.0	9.0	.0	8.0	.0	2.1	.1	26.1	22.5
NNE	.0	.0	.0	.5	.0	.0	.0	.5	.0	.5	.0	.5	.0	.0	.0	2.1	19.7
NE	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	10.2
ENE	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	8.0
E	.0	.5	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	7.6
ESE	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	7.7
SE	.0	2.7	.0	3.7	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	7.1
SSE	.0	.5	.0	2.7	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	7.7
S	.0	1.6	.0	2.7	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	6.4
SSW	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	2.0
SW	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	23.5
WSW	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	34.2
W	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	2.7	35.0
WNW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	2.1	15.7
NW	.0	.0	.0	.5	.0	.5	.0	1.1	.0	1.1	.0	4.8	.0	3.2	.0	11.2	26.9
NNW	.0	.5	.0	1.6	.0	1.1	.0	1.1	.0	3.7	.0	9.0	.0	3.2	.1	20.2	24.7
CALM	.0	4.8													.0	4.8	
TOTAL	.0	11.7	.1	24.5	.0	6.4	.0	6.4	.1	15.4	.1	22.9	.0	12.8	.4	100	18.7

CEILING-VISIBILITY

WIND GRAPH



CTB CUT BANK, MT

CLASS 5 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CTB CUT BANK, MT

PERIOD: 1948-1978

CLASS 5 / NIGHT

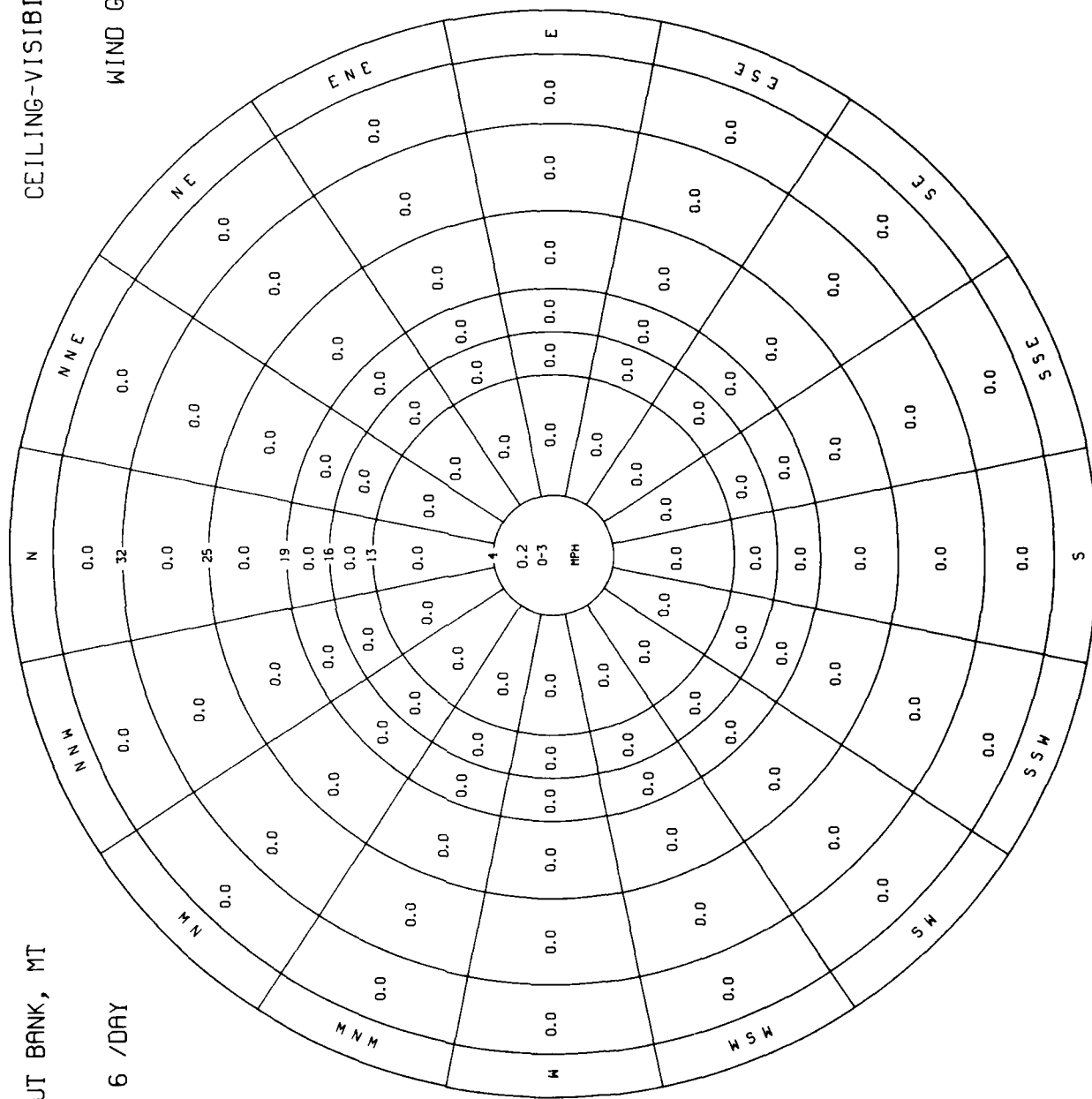
STATION NUMBER: 24137

NO. OBS.: 169

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.8	.0	7.1	.0	.6	.0	1.2	.0	3.6	.0	2.4	.0	1.8	.1 18.3
NNE	.0	.0	.0	2.4	.0	.6	.0	.6	.0	.0	.0	.6	.0	.0	.0 4.1
NNE	.0	.0	.0	1.8	.0	.0	.0	1.2	.0	.6	.0	.0	.0	.6	.0 4.1
ENE	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
E	.0	1.2	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.3
ESE	.0	.6	.0	5.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.5
SE	.0	1.2	.0	5.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0 7.1
SSE	.0	2.4	.0	1.2	.0	1.2	.0	.6	.0	.0	.0	.0	.0	.0	.0 5.3
S	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
SW	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
WSW	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
W	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.8
WNW	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	.0	.6	.0 2.4
NW	.0	.6	.0	1.8	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	.0 3.6
NNW	.0	.6	.0	3.0	.0	.6	.0	1.8	.0	2.4	.0	3.6	.0	5.3	.1 17.2
CALM	.1	18.3													.1 18.3
TOTAL	.1	27.2	.2	39.1	.0	4.1	.0	5.3	.0	7.1	.0	7.1	.0	10.1	.4 100

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CTB CUT BANK, MT

PERIOD: 1948-1978

CLASS 6 / DAY

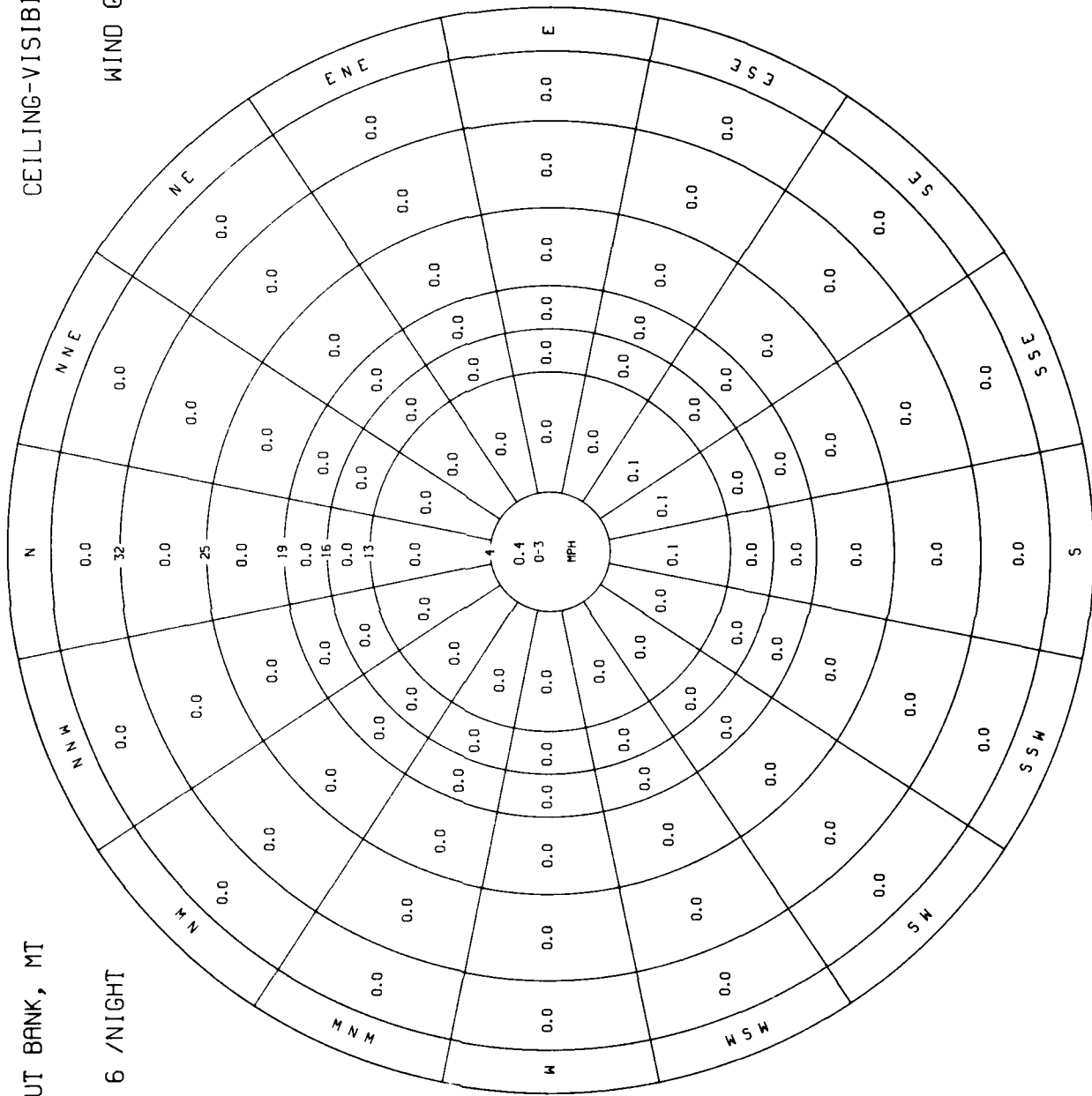
STATION NUMBER: 24137

NO. OBS.: 240

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.0	1.7	.0	.8	.0	.4	.0	.0	.0	2.1	.0	3.7	.0	8.7	25.4
NNE	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	7.0
NE	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	4.0
ENE	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	6.0
E	.0	1.2	.0	2.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	6.7
ESE	.0	1.2	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	6.3
SE	.0	3.7	.0	10.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.1	15.4	6.0
SSE	.0	1.7	.0	7.9	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	11.2	8.1
S	.0	2.5	.0	9.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	11.7	6.2
SSW	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.2
SW	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	1.7	9.5
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	.0	.8	39.0
W	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	1.7	14.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.4	.0	2.1	.0	.0	.0	.0	.0	.8	.0	.0	.0	.8	.0	4.2	15.6
NNW	.0	.4	.0	.8	.0	.0	.0	.8	.0	.4	.0	.4	.0	5.4	.0	8.3	29.4
CALM	.1	22.1													.1	22.1	
TOTAL	.2	35.0	.2	44.6	.0	3.7	.0	1.2	.0	1.7	.0	2.9	.0	10.8	.5	100	9.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CIB CUT BANK, MT

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 24137

NO. OBS.: 324

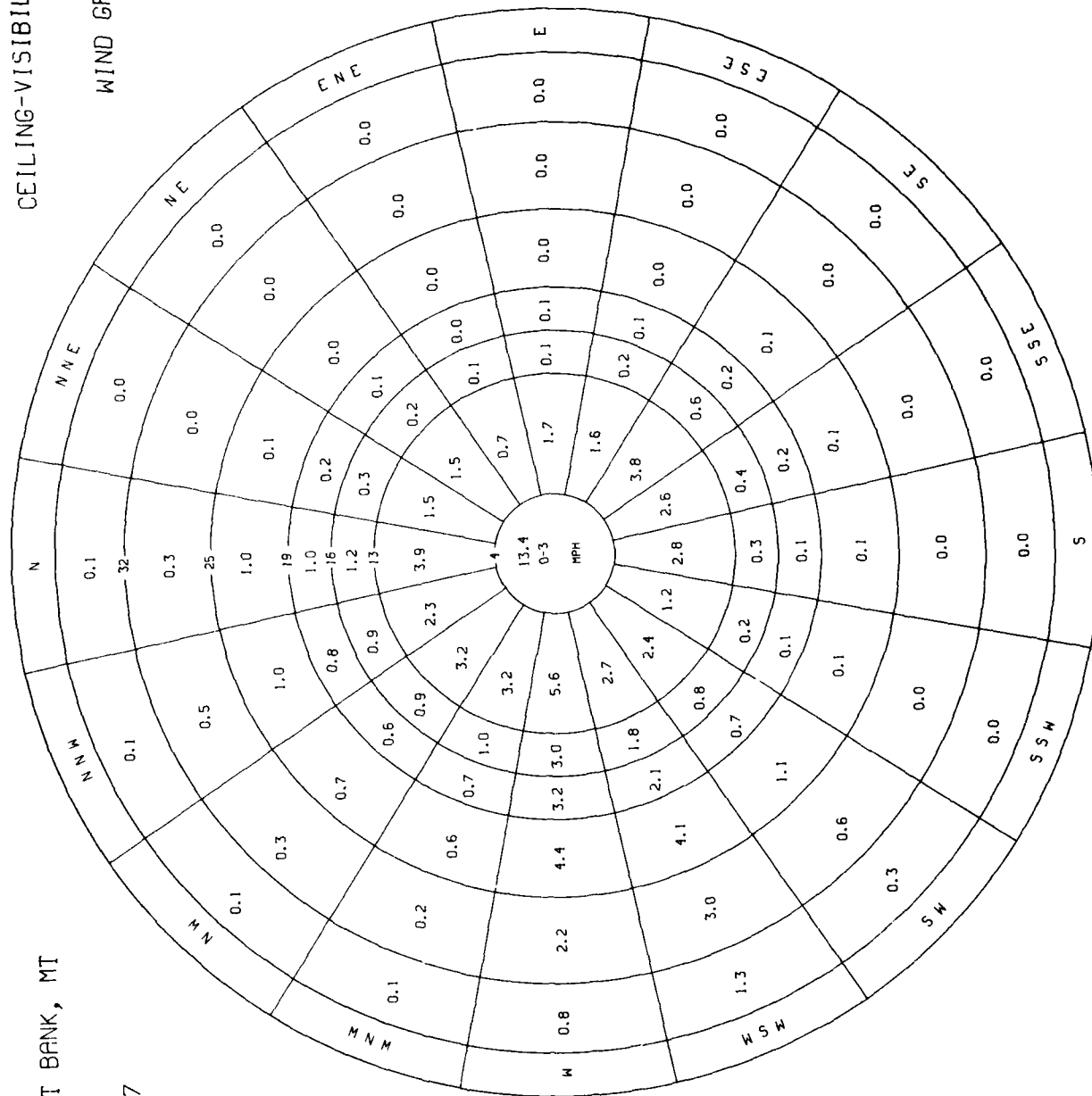
D I R	SPEED GROUPS (MPH)																		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL				
															C	D			
N	.0	2.5	.0	4.9	.0	.6	.0	.0	.0	.6	.0	.6	.0	1.9	.1	11.1	13.4		
NNE	.0	.6	.0	.6	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	1.9	8.8		
NE	.0	2.2	.0	.3	.0	.3	.0	.3	.0	.3	.0	.0	.0	.0	.0	3.4	7.1		
ENE	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	6.9		
E	.0	.3	.0	2.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	8.8		
ESE	.0	.6	.0	2.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	5.9		
SE	.0	5.6	.1	8.3	.0	.6	.0	.0	.0	.3	.0	.0	.0	.0	.1	14.8	6.0		
SSE	.0	1.5	.1	8.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	10.2	6.7		
S	.0	2.5	.1	7.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.9	6.3		
SSW	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	4.5		
SW	.0	1.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	3.4		
WSW	.0	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	4.0		
W	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	3.7		
WNW	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	3.0		
NW	.0	1.2	.0	.6	.0	.0	.0	.3	.0	.0	.0	.0	.9	.0	.3	1.1	15.5		
NNW	.0	.0	.0	1.5	.0	.0	.0	.3	.0	.6	.0	.9	.0	3.4	.1	6.8	26.6		
CALM	.2	24.1													.2	24.1			
TOTAL	.4	44.4	.4	42.0	.0	2.8	.0	.9	.0	2.2	.0	1.5	.1	6.2	.9	100	7.2		

CEILING-VISIBILITY

WIND GRAPH

CTB CUT BANK, MT

CLASS 7

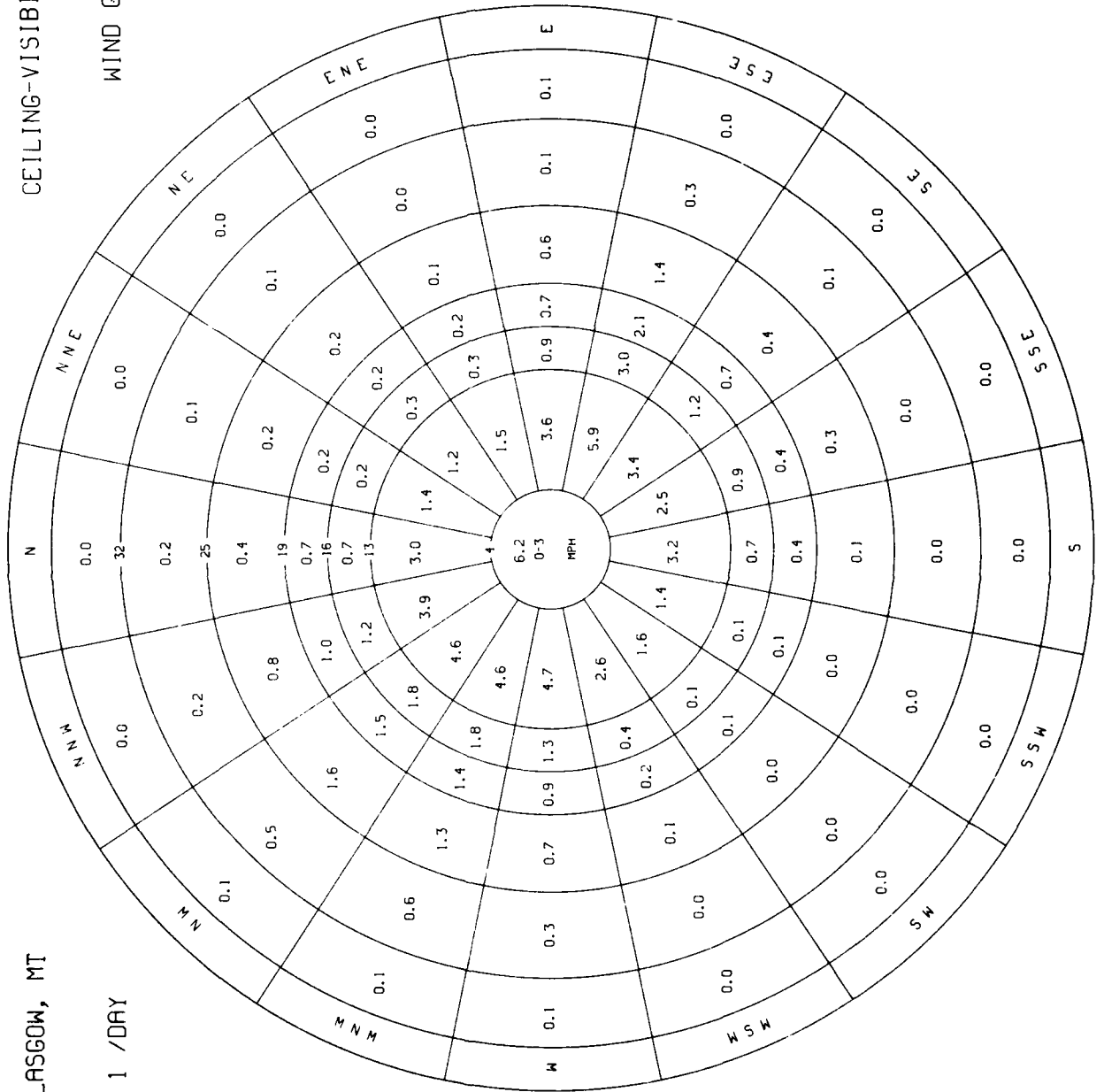


CEILING-VISIBILITY

WIND GRAPH

GGW GLASGOW, MT

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1969-1978

STATION NAME: GGW GLASGOW, MT

CLASS 1 / DAY

NO. OBS.: 15431

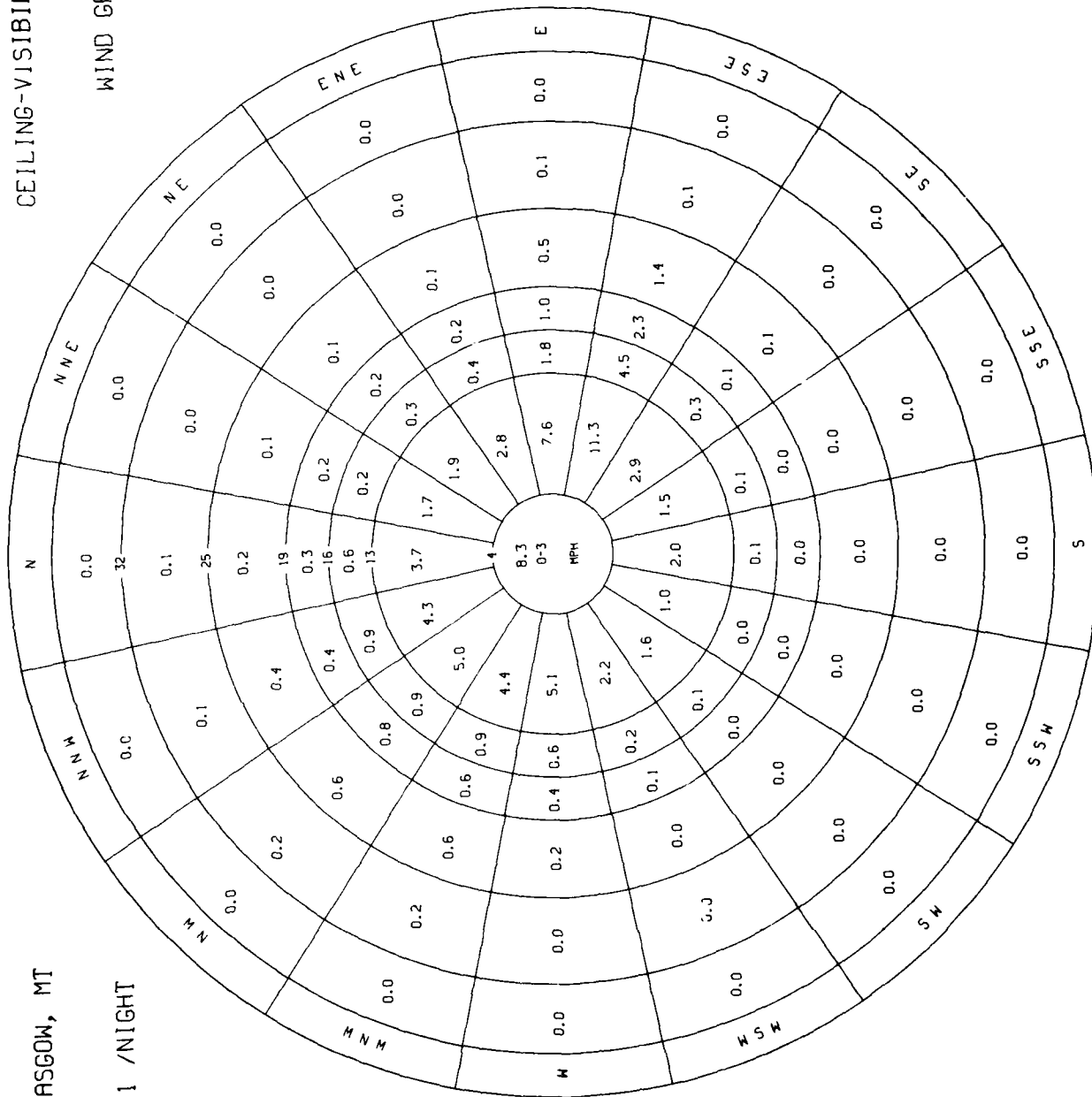
STATION NUMBER: 94008

D I R	SPEED GROUPS (MPH)																					AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL							
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D						
N	.2	.2	3.0	3.3	.7	.8	.7	.7	.4	.5	.2	.2	.0	.0	5.2	5.7	11.4					
NNE	.1	.1	1.4	1.5	.2	.3	.2	.2	.2	.2	.1	.1	.0	.0	2.1	2.3	10.5					
NE	.2	.2	1.2	1.4	.3	.3	.2	.2	.2	.2	.1	.1	.0	.0	2.2	2.4	11.0					
ENE	.2	.2	1.5	1.6	.3	.3	.2	.2	.1	.2	.0	.0	.0	.0	2.4	2.6	10.1					
E	.1	.2	3.6	3.9	.9	1.0	.7	.8	.6	.6	.1	.2	.1	.1	6.1	6.6	12.0					
ESE	.1	.2	5.9	6.4	3.0	3.2	2.1	2.3	1.4	1.5	.3	.3	.0	.0	12.8	13.9	13.1					
SE	.1	.1	3.4	3.7	1.2	1.3	.7	.7	.4	.4	.1	.1	.0	.0	5.9	6.4	11.4					
SSE	.2	.2	2.5	2.7	.9	1.0	.4	.5	.3	.3	.0	.0	.0	.0	4.4	4.8	10.8					
S	.3	.3	3.2	3.4	.7	.8	.4	.4	.1	.2	.0	.0	.0	.0	4.7	5.1	9.5					
SSW	.1	.1	1.4	1.5	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.7	1.9	8.3					
SW	.2	.2	1.6	1.7	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.1	2.3	8.1					
WSW	.3	.3	2.6	2.8	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	3.7	4.0	9.3					
W	.4	.4	4.7	5.1	1.3	1.4	.9	1.0	.7	.8	.3	.4	.1	.1	8.5	9.2	11.7					
WNW	.3	.3	4.6	5.0	1.8	2.0	1.4	1.5	1.3	1.4	.6	.6	.1	.1	10.0	10.9	13.5					
NW	.3	.3	4.6	5.0	1.8	1.9	1.5	1.6	1.6	1.8	.5	.6	.1	.1	10.3	11.2	13.7					
NNW	.3	.3	3.9	4.2	1.2	1.3	1.0	1.1	.8	.9	.2	.2	.0	.0	7.4	8.0	12.1					
CALM	2.7	3.0													2.7	3.0						
TOTAL	6.2	6.7	48.9	53.1	15.1	16.4	10.8	11.8	8.3	9.0	2.5	2.7	.4	.4	92.2	100	11.5					

CEILING-VISIBILITY
WIND GRAPH

GGW GLASGOW, MT

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1969-1978

STATION NAME: GGW GLASGOW, MT

CLASS 1 / NIGHT

NO. OBS.: 11388

STATION NUMBER: 94008

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.3	.4	3.7	4.1	.6	.6	.3	.3	.2	.2	.1	.1	.0	.0	5.2	5.7	9.4
NNE	.2	.2	1.7	1.9	.2	.3	.2	.2	.1	.1	.0	.0	.0	.0	2.5	2.8	9.6
NE	.1	.1	1.9	2.1	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	2.6	2.9	9.9
ENE	.1	.1	2.8	3.1	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	3.8	4.1	9.9
E	.2	.2	7.6	8.4	1.8	1.9	1.0	1.1	.5	.6	.1	.1	.0	.0	11.2	12.3	11.2
ESE	.2	.2	11.3	12.3	4.5	4.9	2.3	2.5	1.4	1.6	.1	.1	.0	.0	19.8	21.7	12.0
SE	.2	.2	2.9	3.1	.3	.4	.1	.1	.1	.1	.0	.0	.0	.0	3.6	3.9	9.1
SSE	.2	.2	1.5	1.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.8	2.0	7.6
S	.3	.3	2.0	2.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.4	2.7	6.7
SSW	.2	.2	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.3	6.5
SW	.2	.2	1.6	1.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.9	2.1	6.9
WSW	.3	.3	2.2	2.4	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.8	3.0	7.3
W	.4	.4	5.1	5.6	.6	.6	.4	.4	.2	.2	.0	.1	.0	.0	6.7	7.4	8.7
WNW	.4	.4	4.4	4.8	.9	1.0	.6	.7	.6	.6	.2	.2	.0	.0	7.1	7.7	10.6
NW	.5	.5	5.0	5.4	.9	1.0	.8	.9	.6	.7	.2	.2	.0	.0	8.1	8.8	10.8
NNW	.3	.4	4.3	4.7	.9	.9	.4	.5	.4	.4	.1	.1	.0	.0	6.4	7.0	10.0
CALM	4.4	4.8													4.4	4.8	
TOTAL	8.3	9.1	59.1	64.7	11.8	12.9	6.7	7.3	4.4	4.8	.9	1.0	.1	.1	91.3	100	9.7

AD-A108 166

NATIONAL CLIMATIC CENTER ASHEVILLE NC

F/G 4/2

WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS. VOLUME V--ETC(U)
JUN 81 DOT-FA79WAI-057

JUN 81

DOT-FA79WAI-057

NL

UNCLASSIFIED

3. 3

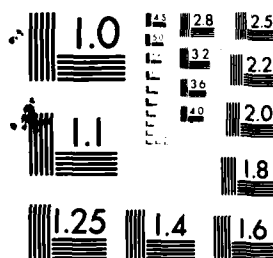
— 10 —

17110

3 OF 5

AD-A

108166



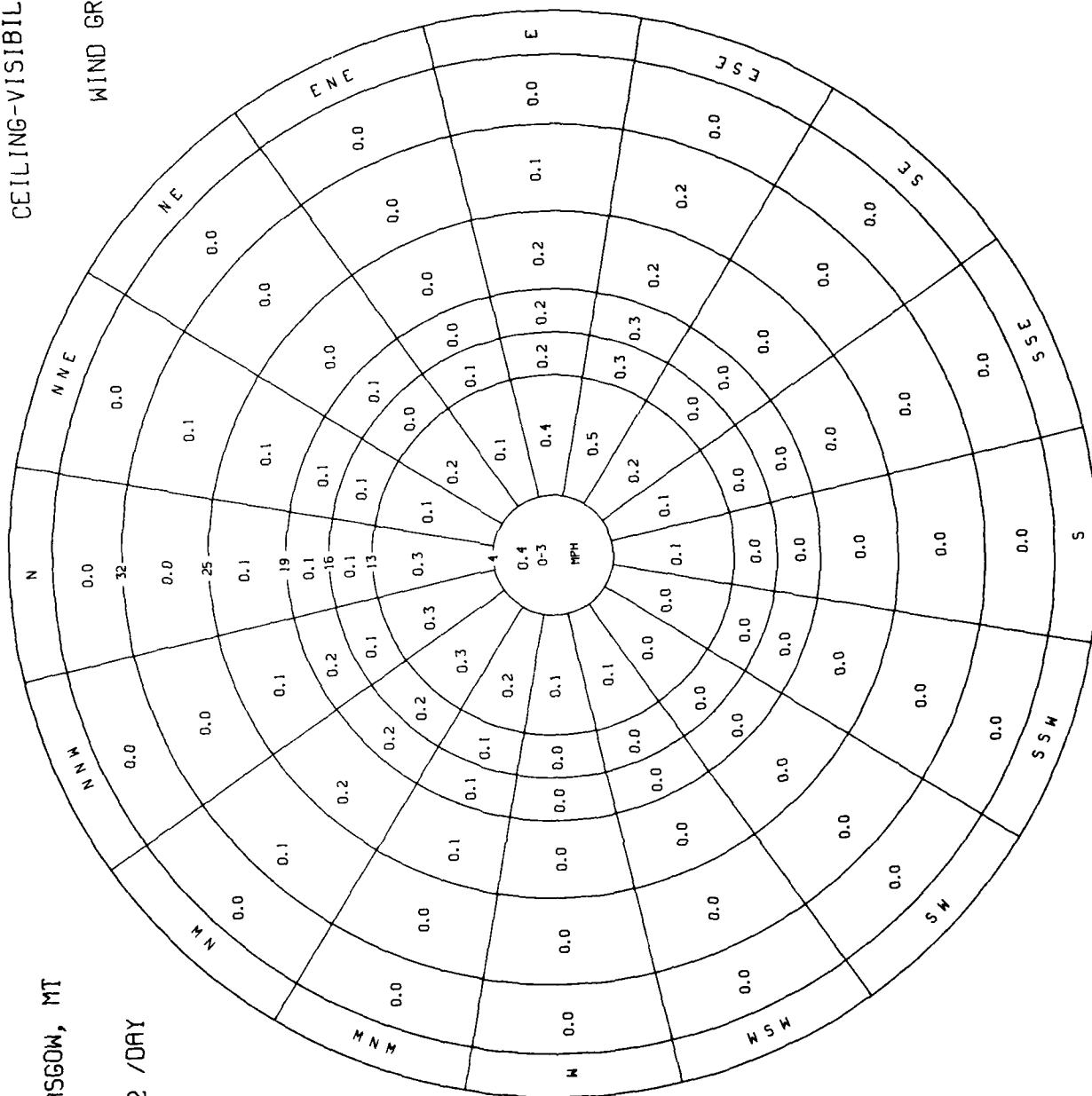
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

CEILING-VISIBILITY

WIND GRAPH

GGW GLASGOW, MT

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME:GGW GLASGOW, MT

PERIOD: 1969-1978

CLASS 2 / DAY

STATION NUMBER: 94008

NO. OBS.: 1309

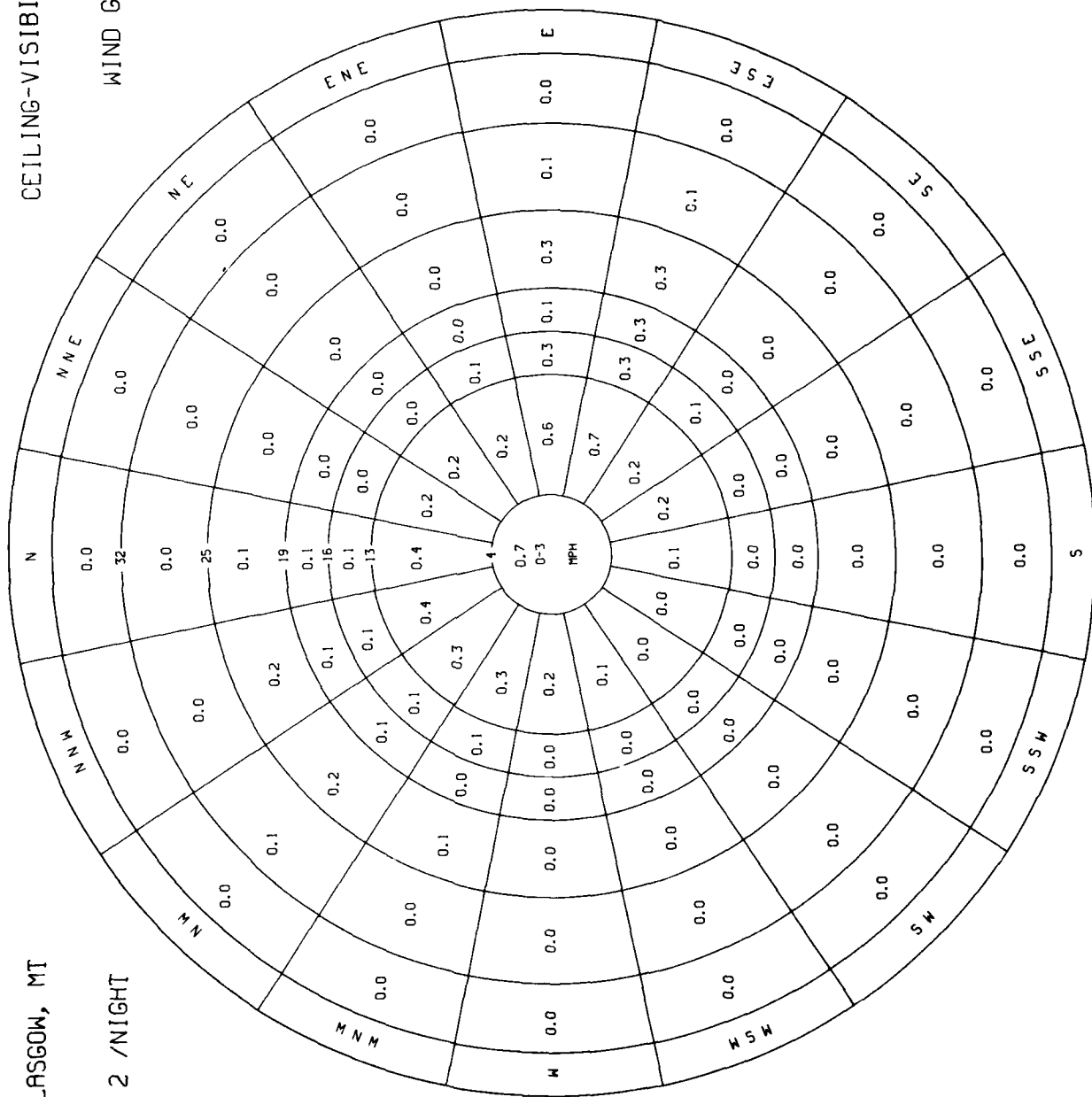
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.3	3.3	.1	1.8	.1	1.8	.1	1.4	.0	.4	.0	.1	.7 8.6
NNE	.0	.2	.1	1.3	.1	.7	.1	.7	.1	.8	.1	.8	.0	.0	.3 4.4
NNE	.0	.1	.2	2.4	.0	.6	.1	.8	.0	.4	.0	.2	.0	.2	.4 4.7
ENE	.0	.1	.1	1.8	.1	.9	.0	.4	.0	.5	.0	.2	.0	.0	.3 3.9
E	.0	.5	.4	4.5	.2	2.2	.2	2.9	.2	2.7	.1	1.1	.0	.1	1.1 14.0
ESE	.0	.5	.5	6.1	.3	3.7	.3	3.4	.2	3.1	.2	2.6	.0	.4	1.6 19.9
SE	.0	.1	.2	2.8	.0	.6	.0	.2	.0	.2	.0	.0	.0	.0	.3 3.9
SSE	.0	.2	.1	1.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1 1.7
S	.0	.1	.1	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 .8
SSW	.0	.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .5
SW	.0	.2	.0	.5	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.1 .8
WSW	.0	.2	.1	1.1	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.1 1.5
W	.0	.2	.1	1.9	.0	.3	.0	.5	.0	.2	.0	.1	.0	.1	.3 3.3
WNW	.0	.2	.2	2.4	.1	1.1	.1	1.1	.1	1.7	.0	.4	.0	.2	.6 7.2
NW	.0	.1	.3	3.7	.2	2.0	.2	2.6	.2	2.0	.1	.8	.0	.4	.9 11.5
NNW	.0	.2	.3	3.8	.1	1.4	.2	2.7	.1	1.6	.0	.6	.0	.1	.8 10.3
CALM	.2	2.9													.2 2.9
TOTAL	.4	5.4	3.0	38.2	1.2	16.0	1.3	17.2	1.1	14.5	.6	7.2	.1	1.5	7.8 100

CEILING-VISIBILITY

WIND GRAPH

GGW GLASGOW, MT

CLASS 2 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GGM GLASGOW, MT

PERIOD: 1969-1978

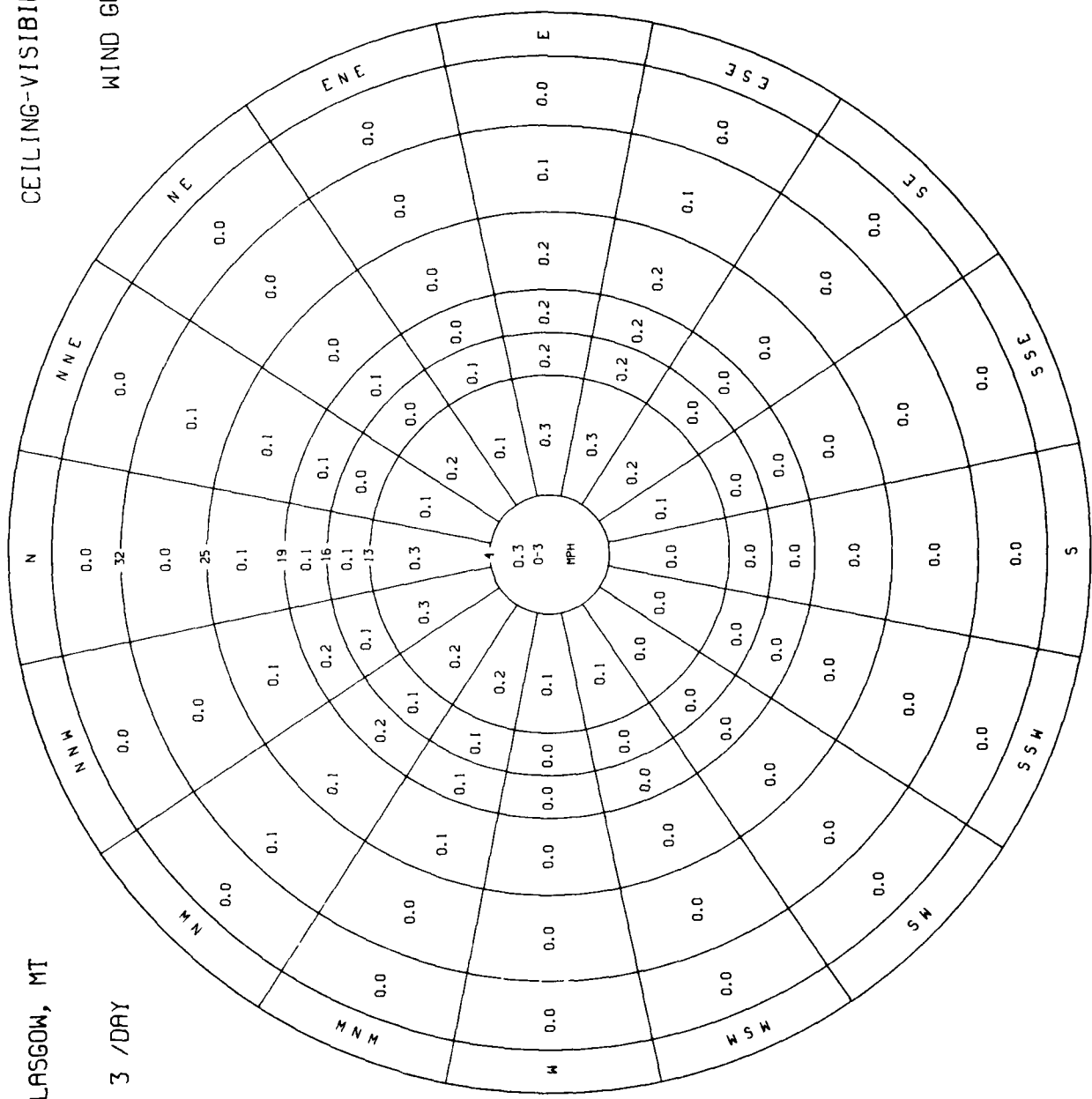
CLASS 2 / NIGHT

STATION NUMBER: 94008

NO. OBS.: 1080

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.5	.4	4.3	.1	1.3	.1	1.3	.1	1.0	.0	.1	.0	.1	.7	8.5	12.3
NNE	.0	.4	.2	2.4	.0	.3	.0	.5	.0	.6	.0	.1	.0	.1	.4	4.3	11.7
NE	.0	.2	.2	1.9	.0	.6	.0	.3	.0	.6	.0	.1	.0	.1	.3	3.7	13.1
ENE	.0	.2	.2	2.3	.1	1.1	.0	.3	.0	.6	.0	.2	.0	.3	.4	4.9	13.4
E	.0	.4	.6	6.4	.3	3.2	.1	1.7	.3	3.1	.1	.9	.0	.0	1.4	15.7	14.2
ESE	.0	.2	.7	8.0	.3	3.3	.3	3.6	.3	3.5	.1	1.7	.0	.5	1.8	20.7	15.3
SE	.0	.5	.2	2.9	.1	.7	.0	.1	.0	.0	.0	.0	.0	.0	.4	4.2	8.5
SSE	.0	.1	.2	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.9	7.5
S	.0	.1	.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	6.7
SSW	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	4.3
SW	.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	4.8
WSW	.0	.4	.1	.7	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	1.3	7.4
W	.0	.1	.2	2.1	.0	.3	.0	.2	.0	.1	.0	.1	.0	.0	.2	2.9	9.1
WNW	.0	.3	.3	3.0	.1	.9	.0	.6	.1	.7	.0	.4	.0	.0	.5	5.8	12.5
NW	.0	.5	.3	3.8	.1	1.7	.1	1.3	.2	1.9	.1	1.3	.0	.1	.9	10.5	14.8
NNW	.0	.3	.4	5.0	.1	1.7	.1	1.6	.2	1.9	.0	.3	.0	.0	.9	10.6	13.0
CALM	.3	3.5													.3	3.5	
TOTAL	.7	7.7	4.0	45.6	1.3	15.1	1.0	11.4	1.2	14.0	.4	5.1	.1	1.1	8.7	100	12.7

CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1969-1978

STATION NAME: GGW GLASGOW, MT

CLASS 3 / DAY

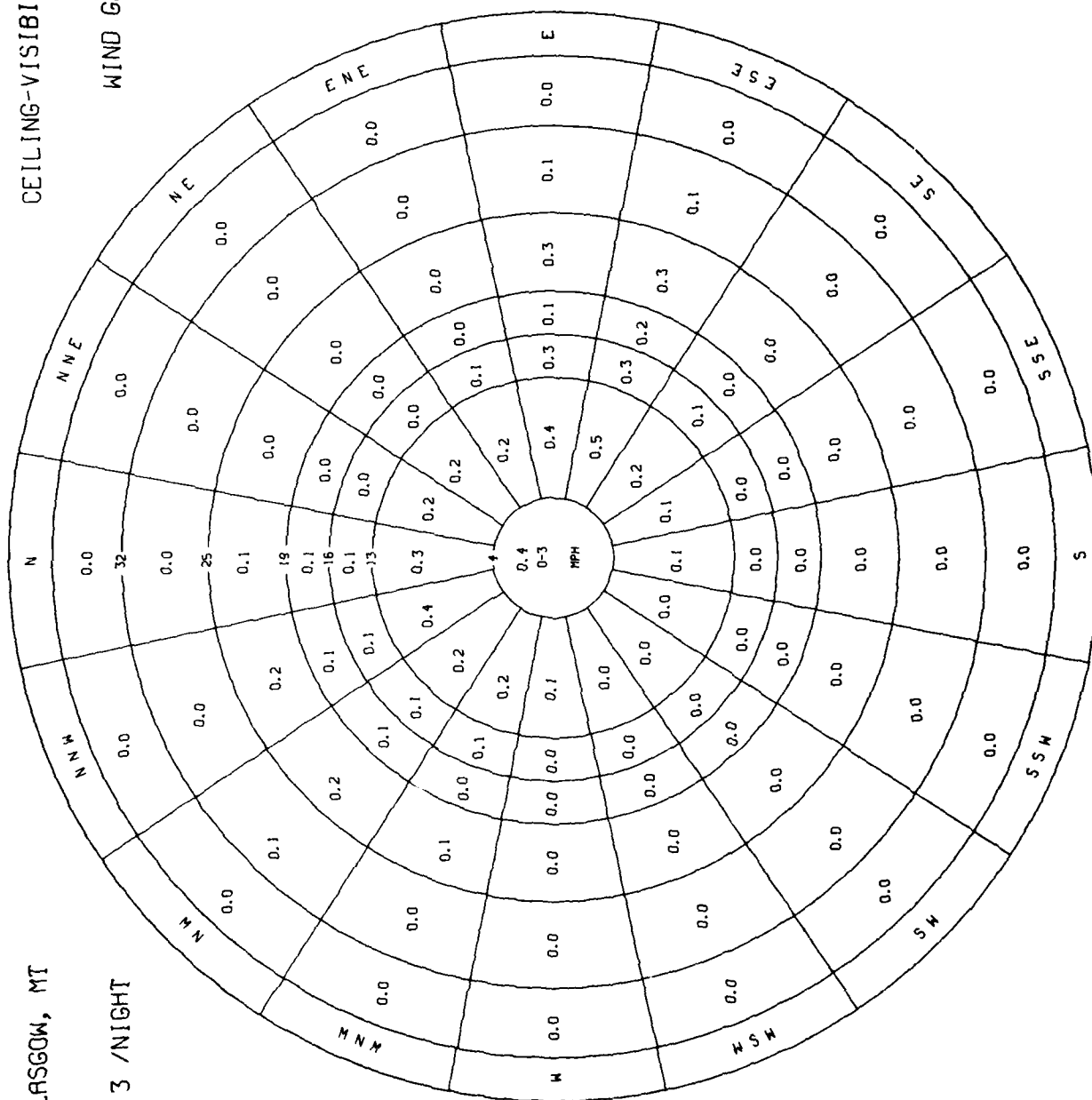
NO. OBS.: 1104

STATION NUMBER: 94008

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.0	.3	3.8	.1	2.1	.1	1.8	.1	1.6	.0	.4	.0	.1	.6	9.8	14.4
NNE	.0	.1	.1	1.5	.0	.6	.1	.8	.1	.9	.1	.8	.0	.0	.3	4.8	15.9
NE	.0	.1	.2	2.7	.0	.7	.1	.8	.0	.5	.0	.2	.0	.3	.3	5.3	13.4
ENE	.0	.1	.1	2.1	.1	1.1	.0	.4	.0	.4	.0	.2	.0	.0	.3	4.2	12.1
E	.0	.3	.3	4.6	.2	2.4	.2	3.2	.2	2.7	.1	1.2	.0	.1	.9	14.4	15.4
ESE	.0	.5	.3	5.3	.2	3.5	.2	3.2	.2	2.9	.1	1.5	.0	.0	1.1	16.8	15.2
SE	.0	.1	.2	2.4	.0	.5	.0	.3	.0	.2	.0	.0	.0	.0	.2	3.5	10.3
SSE	.0	.1	.1	.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.2	8.7
S	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	8.6
SSW	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	8.2
SW	.0	.1	.0	.5	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.1	.8	8.8
WSW	.0	.2	.1	1.3	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	1.6	7.5
W	.0	.2	.1	1.9	.0	.4	.0	.5	.0	.2	.0	.0	.0	.1	.2	3.3	11.3
WNW	.0	.2	.2	2.5	.1	1.2	.1	1.2	.1	1.9	.0	.5	.0	.3	.5	7.7	15.4
NW	.0	.0	.2	3.4	.1	2.3	.2	2.9	.1	2.2	.1	.8	.0	.3	.8	11.9	16.3
NNW	.0	.1	.3	4.1	.1	1.6	.2	3.2	.1	1.9	.0	.6	.0	.1	.8	11.6	15.2
CALM	.1	2.2													.1	2.2	
TOTAL	.3	4.1	2.5	37.9	1.1	17.0	1.2	18.4	1.0	15.3	.4	6.2	.1	1.2	6.6	100	14.2

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1969-1978

STATION NAME: GGM GLASGOW, MT

CLASS 3 / NIGHT

NO. OBS.: 889

STATION NUMBER: 94008

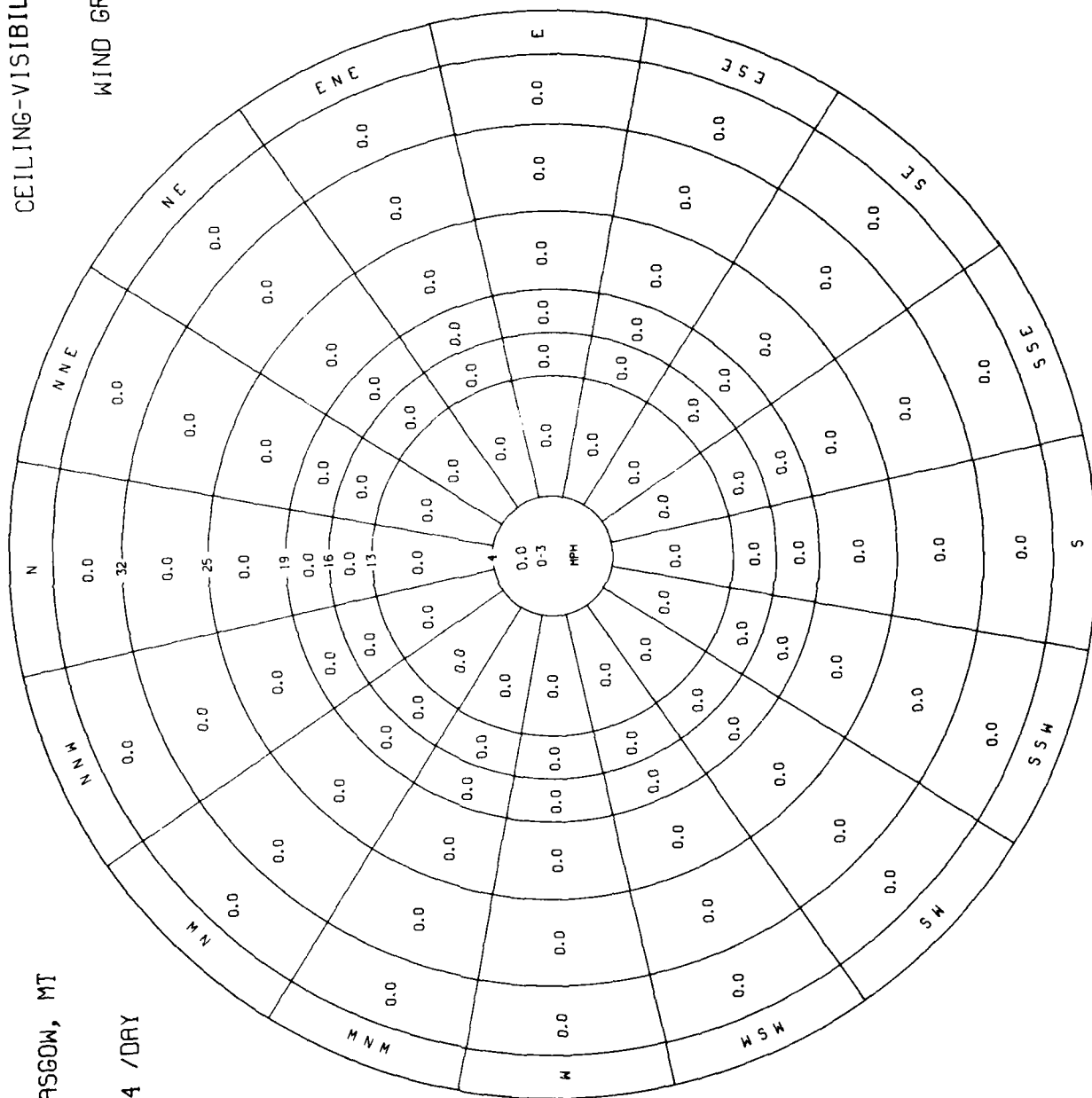
D I R	SPEED GROUPS (MPH)																		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D			
N	.0	.2	.3	4.4	.1	1.6	.1	1.6	.1	1.1	.0	.0	.0	.1	.6	9.0	12.8		
NNE	.0	.2	.2	2.6	.0	.3	.0	.4	.0	.7	.0	.1	.0	.1	.3	4.5	12.4		
NE	.0	.2	.2	2.1	.0	.7	.0	.3	.0	.6	.0	.1	.0	.1	.3	4.2	13.2		
ENE	.0	.0	.2	2.8	.1	1.2	.0	.2	.0	.7	.0	.2	.0	.3	.4	5.5	13.8		
E	.0	.2	.4	6.3	.3	3.6	.1	1.9	.3	3.6	.1	1.0	.0	.0	1.2	16.6	14.6		
ESE	.0	.1	.5	6.7	.3	3.6	.2	3.5	.3	3.6	.1	1.3	.0	.0	1.3	18.9	15.2		
SE	.0	.2	.2	2.1	.1	.8	.0	.1	.0	.0	.0	.0	.0	.0	.2	3.3	9.5		
SSE	.0	.0	.1	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.5	8.0		
S	.0	.1	.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	6.7		
SSW	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	4.3		
SW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	6.0		
WSW	.0	.3	.0	.7	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	1.2	7.9		
W	.0	.1	.1	1.8	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.2	2.6	9.1		
WNW	.0	.3	.2	3.0	.1	1.1	.0	.7	.1	.8	.0	.4	.0	.0	.5	6.4	12.9		
NW	.0	.3	.2	3.4	.1	1.8	.1	1.6	.2	2.1	.1	1.3	.0	.1	.8	10.7	15.7		
NNW	.0	.3	.4	5.2	.1	1.9	.1	1.8	.2	2.1	.0	.3	.0	.0	.8	11.7	13.4		
CALM	.2	2.5													.2	2.5			
TOTAL	.4	5.4	3.1	43.9	1.2	17.0	.9	12.5	1.1	15.5	.4	4.9	.1	.8	7.1	100	13.2		

CEILING-VISIBILITY

WIND GRAPH

GGW GLASGOW, MT

CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME:GGW GLASGOW, MT

PERIOD: 1969-1978

CLASS 4 / DAY

STATION NUMBER:94008

NO. OBS.: 94

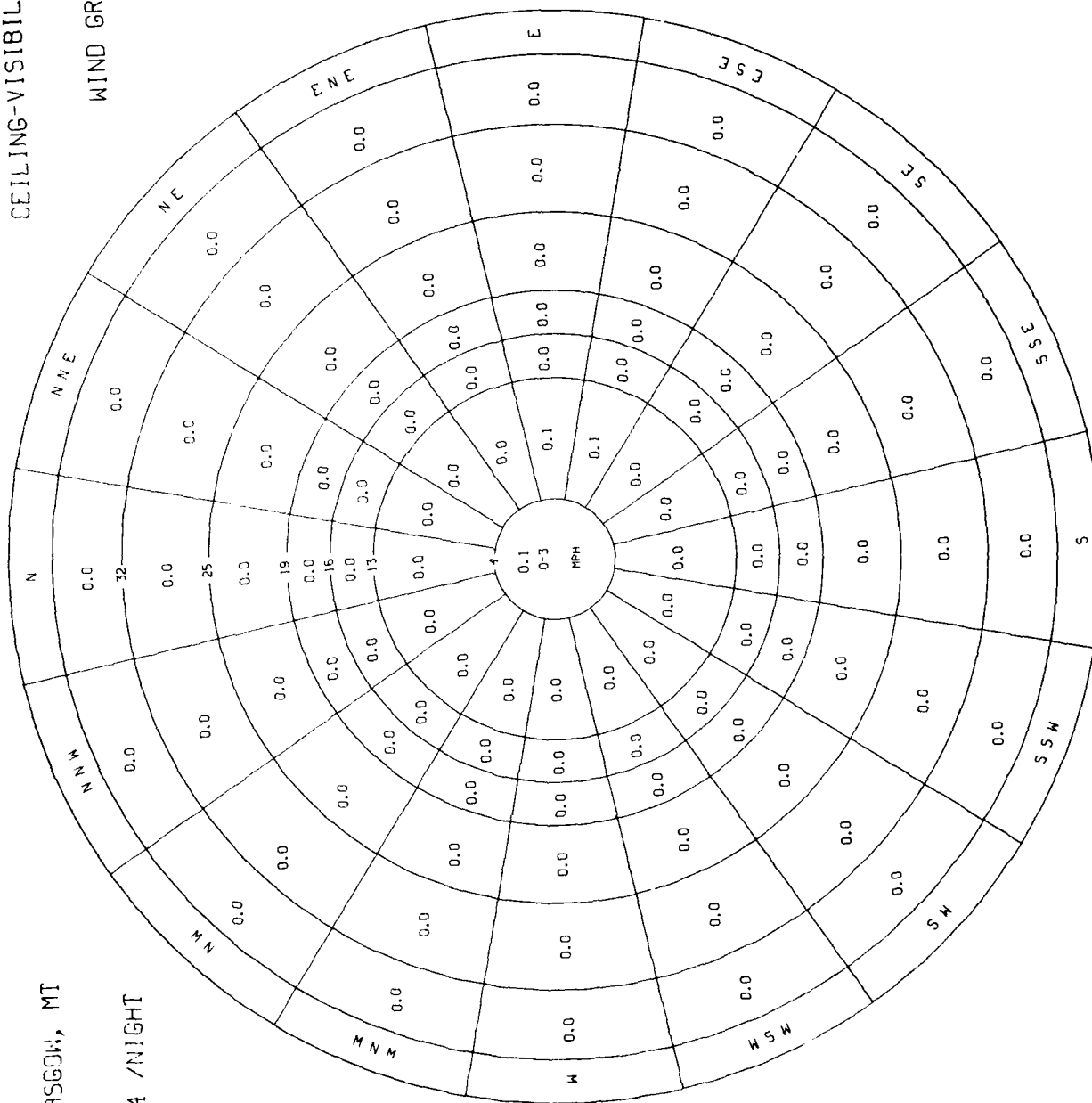
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	2.1	16.5
NNE	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	1.1	.0	.0	2.1	21.5
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1	29.0
ENE	.0	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	3.2	17.0
E	.0	1.1	.0	4.3	.0	3.2	.0	2.1	.0	4.3	.0	2.1	.0	.0	.1	17.0	15.6
ESE	.0	.0	.0	6.4	.0	5.3	.0	7.4	.0	4.3	.0	7.4	.0	2.1	.2	33.0	19.6
SE	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	8.5
SSE	.0	1.1	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	7.0
S	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	7.5
SSW	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	2.0
SW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	7.0
WSW	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	10.5
W	.0	.0	.0	2.1	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	4.3	12.0
WNW	.0	.0	.0	2.1	.0	2.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	5.3	11.8
NW	.0	.0	.0	5.3	.0	1.1	.0	2.1	.0	2.1	.0	.0	.0	.0	.1	12.8	16.3
NNW	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	3.2	13.3
CALM	.0	2.1													.0	2.1	
TOTAL	.0	5.3	.2	34.0	.1	13.8	.1	17.0	.1	11.7	.1	13.8	.0	4.3	.6	100	15.5

CEILING-VISIBILITY

WIND GRAPH

GGW GLASGOW, MT

CLASS 4 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME:GGW GLASGOW, MT

PERIOD: 1969-1978

CLASS 4 / NIGHT

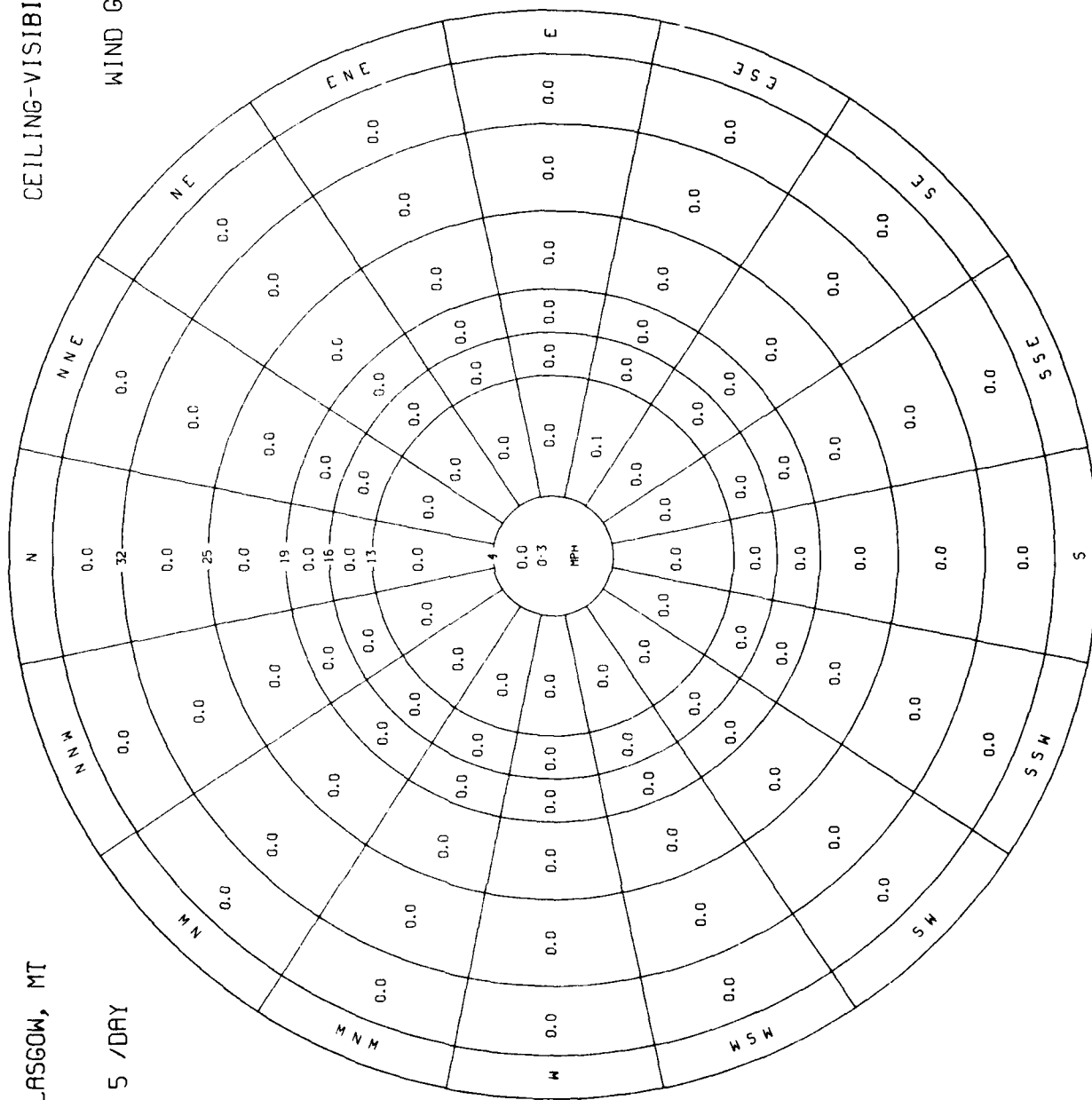
STATION NUMBER:94008

NO. OBS.: 90

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	2.2	.0	3.3	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	6.7	8.3
NNE	.0	.0	.0	2.2	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	3.3	11.0
NE	.0	.0	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	2.2	14.5
ENE	.0	.0	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	2.2	14.5
E	.0	.0	.1	8.9	.0	2.2	.0	1.1	.0	2.2	.0	1.1	.0	.0	.1	15.6	13.5
ESE	.0	.0	.1	15.6	.0	1.1	.0	4.4	.0	5.6	.0	2.2	.0	.0	.2	28.9	14.0
SE	.0	1.1	.0	5.6	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.8	7.9
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	7.0
WSW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	7.0
W	.0	.0	.0	4.4	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	5.6	10.4
WNNW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	7.0
NW	.0	1.1	.0	4.4	.0	1.1	.0	.0	.0	1.1	.0	2.2	.0	.0	.1	10.0	13.0
NNW	.0	.0	.0	3.3	.0	1.1	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	6.7	12.3
CALM	.1	7.9													.1	7.8	
TOTAL	.1	12.2	.4	52.2	.1	7.8	.1	8.9	.1	11.1	.1	7.8	.0	.0	.7	100	11.3

CEILING-VISIBILITY

WIND GRAPH



ANNUAL

PERIOD: 1969-1978

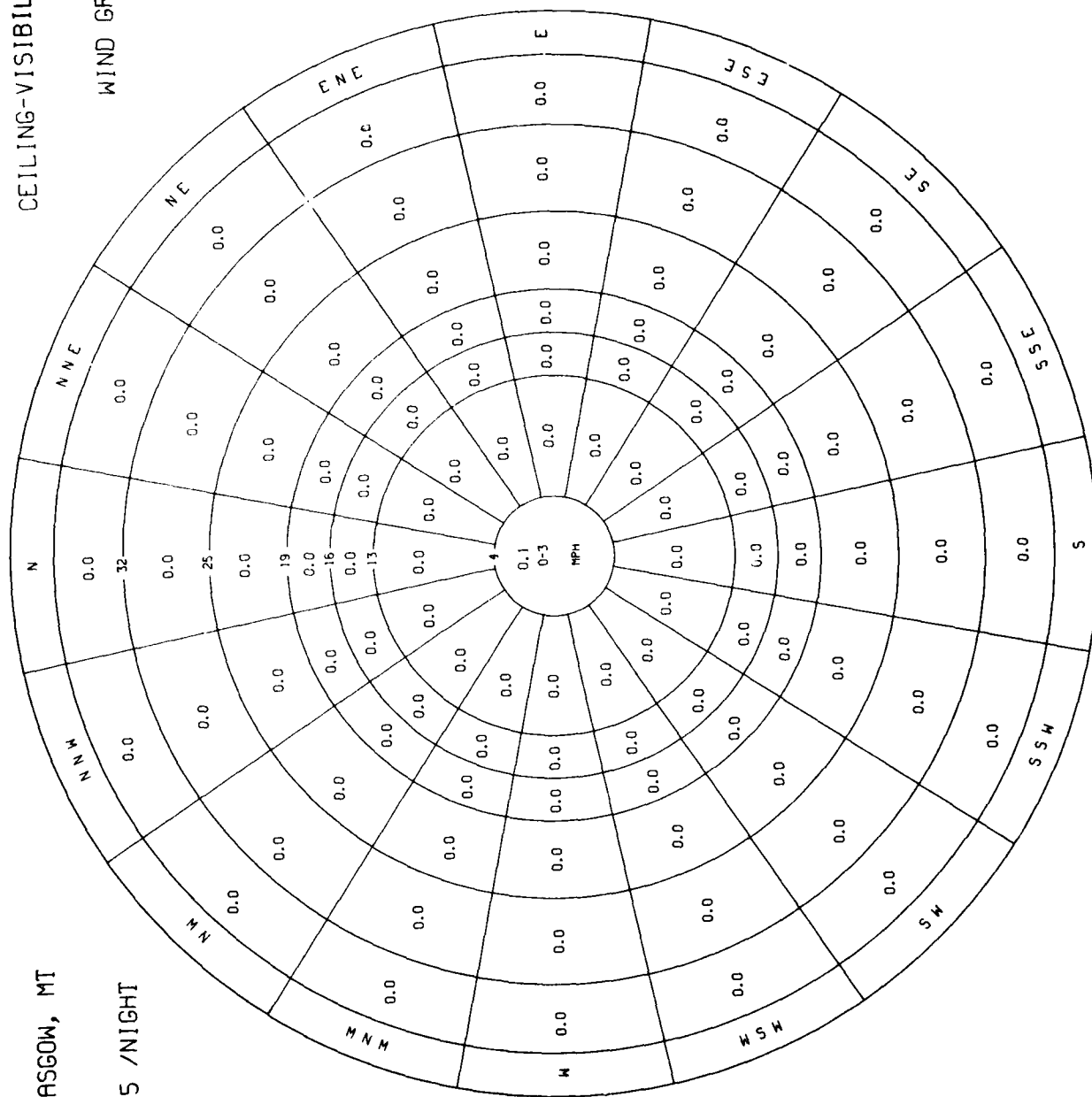
CLASS 5 / DAY

NO. OBS.: 59

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	5.0
NNE	.0	.0	.0	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.0	.0	.0	3.4	17.0
NE	.0	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	3.4	14.5
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	.0	.0	.0	.0	.0	3.4	22.5
E	.0	3.4	.0	5.1	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	10.2	7.8
ESE	.0	.0	.1	15.3	.0	5.1	.0	5.1	.0	6.8	.0	8.5	.0	1.7	.1	42.4	17.2
SE	.0	.0	.0	11.9	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.6	8.0
SSE	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	6.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	1.7	29.0
WNW	.0	.0	.0	3.4	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	5.1	11.3
NW	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	7.5
NNW	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	7.0
CALM	.0	6.8													.0	6.8	
TOTAL	.0	10.2	.2	47.5	.0	8.5	.0	8.5	.0	13.6	.0	10.2	.0	1.7	.4	100	12.7

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1969-1978

STATION NAME: GGW GLASGOW, MT

CLASS 5 / NIGHT

NO. OBS.: 56

STATION NUMBER: 94008

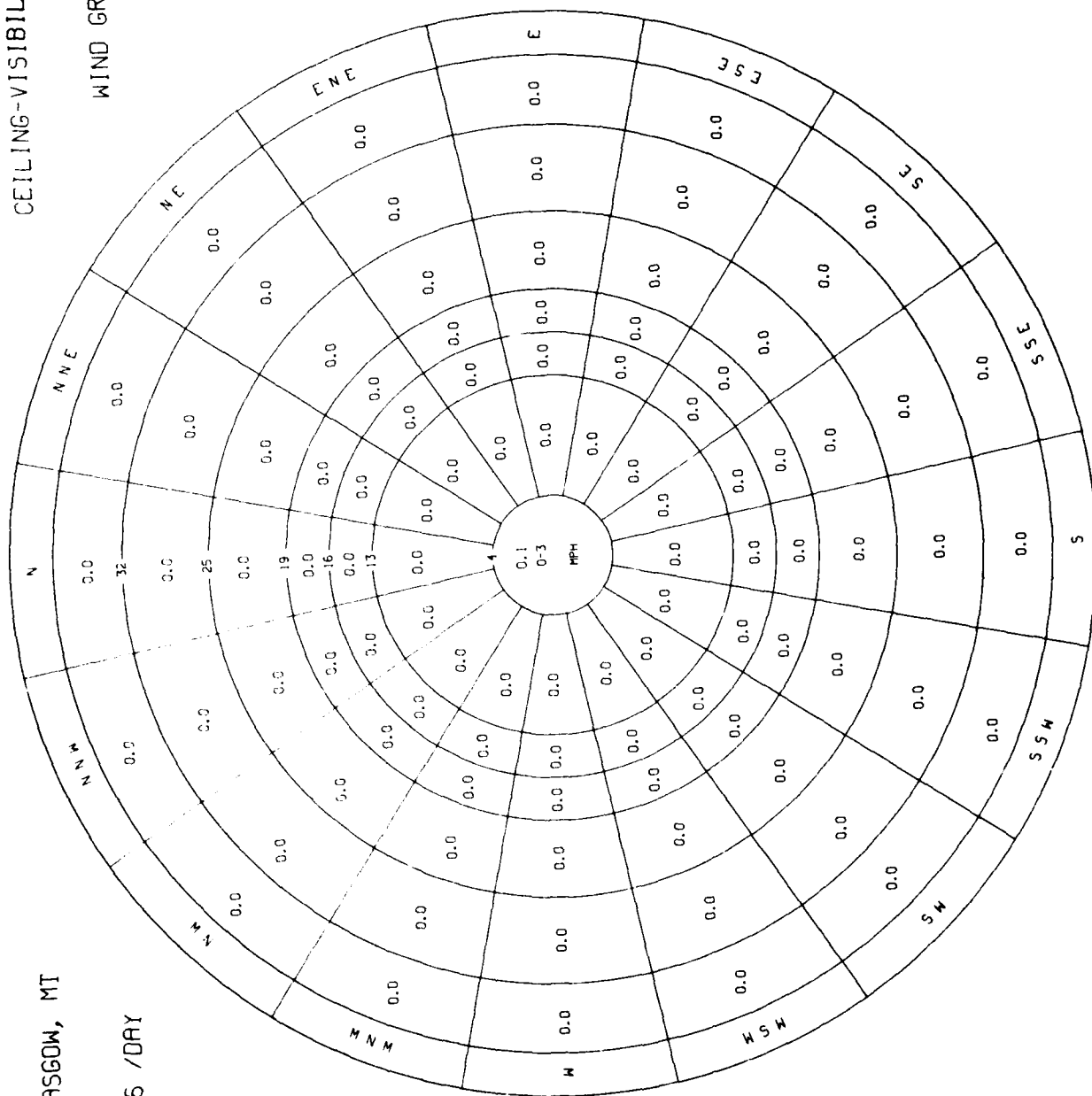
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
																C	D
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	1.8	.0	5.4	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	8.9	9.6
NNE	.0	3.6	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	3.7
NE	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	6.0
ENE	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	3.0
E	.0	1.8	.0	3.6	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	8.0
ESE	.0	.0	.0	10.7	.0	3.6	.0	5.4	.0	1.8	.0	3.6	.0	7.1	.1	32.1	18.7
SE	.0	3.6	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	5.7
SSE	.0	1.8	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	6.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	6.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	.0	.0	3.6	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	5.4	11.0
NW	.0	1.8	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	6.0
NNW	.0	.0	.0	7.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	5.8
CALM	.0	8.9													.0	8.9	
TOTAL	.1	26.8	.2	46.4	.0	5.4	.0	5.4	.0	5.4	.0	3.6	.0	7.1	.4	100	10.1

CEILING-VISIBILITY

WIND GRAPH

GGW GLASGOW, MT

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GGM GLASGOW, MT

PERIOD: 1969-1978

CLASS 6 / DAY

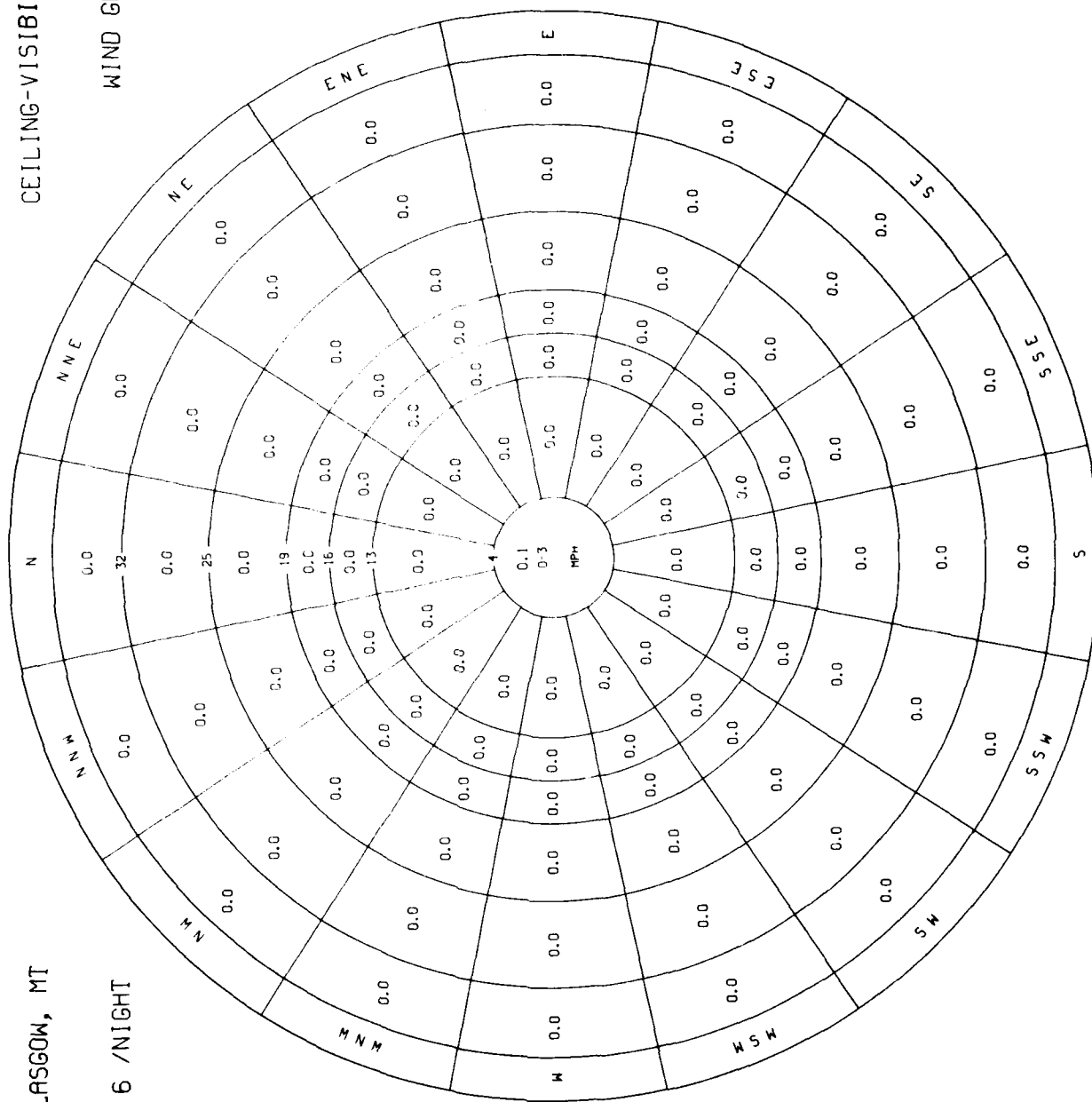
STATION NUMBER: 94008

NO. OBS.: 52

O I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	.0	3.8	23.0
NNE	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	3.0
NE	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	5.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	1.9	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	3.8	17.0
ESE	.0	1.9	.0	13.5	.0	3.8	.0	.0	.0	1.9	.0	9.6	.0	3.8	.1	34.6	17.7
SE	.0	.0	.0	1.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	10.5
SSE	.0	.0	.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	5.7
S	.0	1.9	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	6.0
SSW	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	6.0
SW	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	3.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	7.5
WNW	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	3.0
NW	.0	1.9	.0	5.8	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	9.6	11.6
NNW	.0	1.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	4.0
CALM	.0	15.4													.0	15.4	
TOTAL	1	28.8	.1	42.3	.0	5.8	.0	1.9	.0	3.8	.0	13.5	.0	3.8	.3	100	10.7

GGW GLASGOW, MT

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME:GGW GLASGOW, MT

PERIOD:1969-1978

CLASS 6 / NIGHT

STATION NUMBER:94008

NO. OBS.: 45

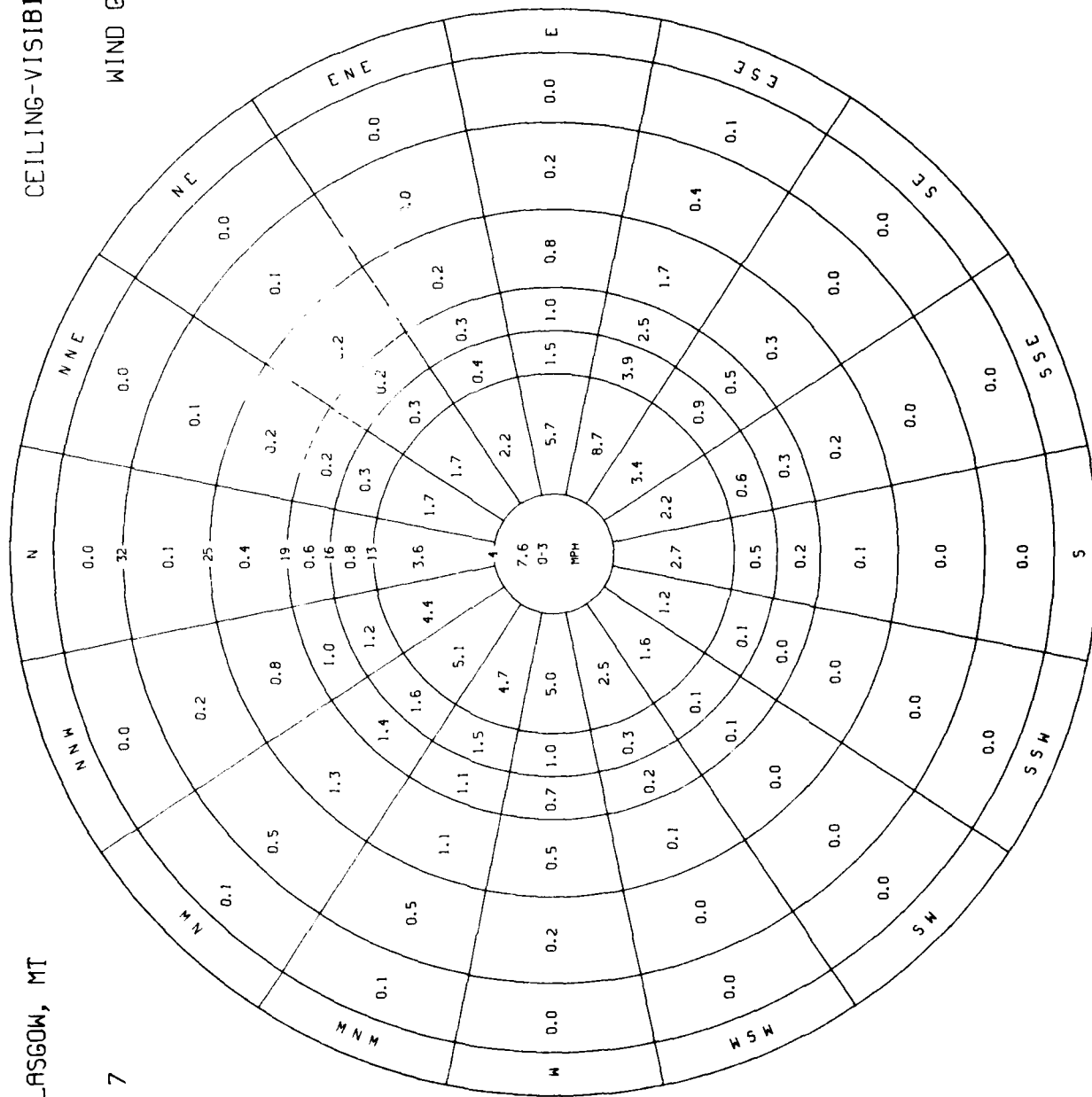
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	5.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	2.2	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9	7.5
ESE	.0	2.2	.0	13.3	.0	2.2	.0	2.2	.0	.0	.0	4.4	.0	2.2	.1	26.7	14.6
SE	.0	.0	.0	11.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	6.0
SSE	.0	.0	.0	8.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9	6.5
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	2.5
WSW	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	3.0
W	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	7.0
WNW	.0	.0	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	7.0
NW	.0	.0	.0	11.1	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.3	8.2
NNW	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	5.0
CALM	.0	8.9													.0	8.9	
TOTAL	.1	20.0	.2	66.7	.0	4.4	.0	2.2	.0	.0	.0	4.4	.0	2.2	.4	100	8.1

CEILING-VISIBILITY

WIND GRAPH

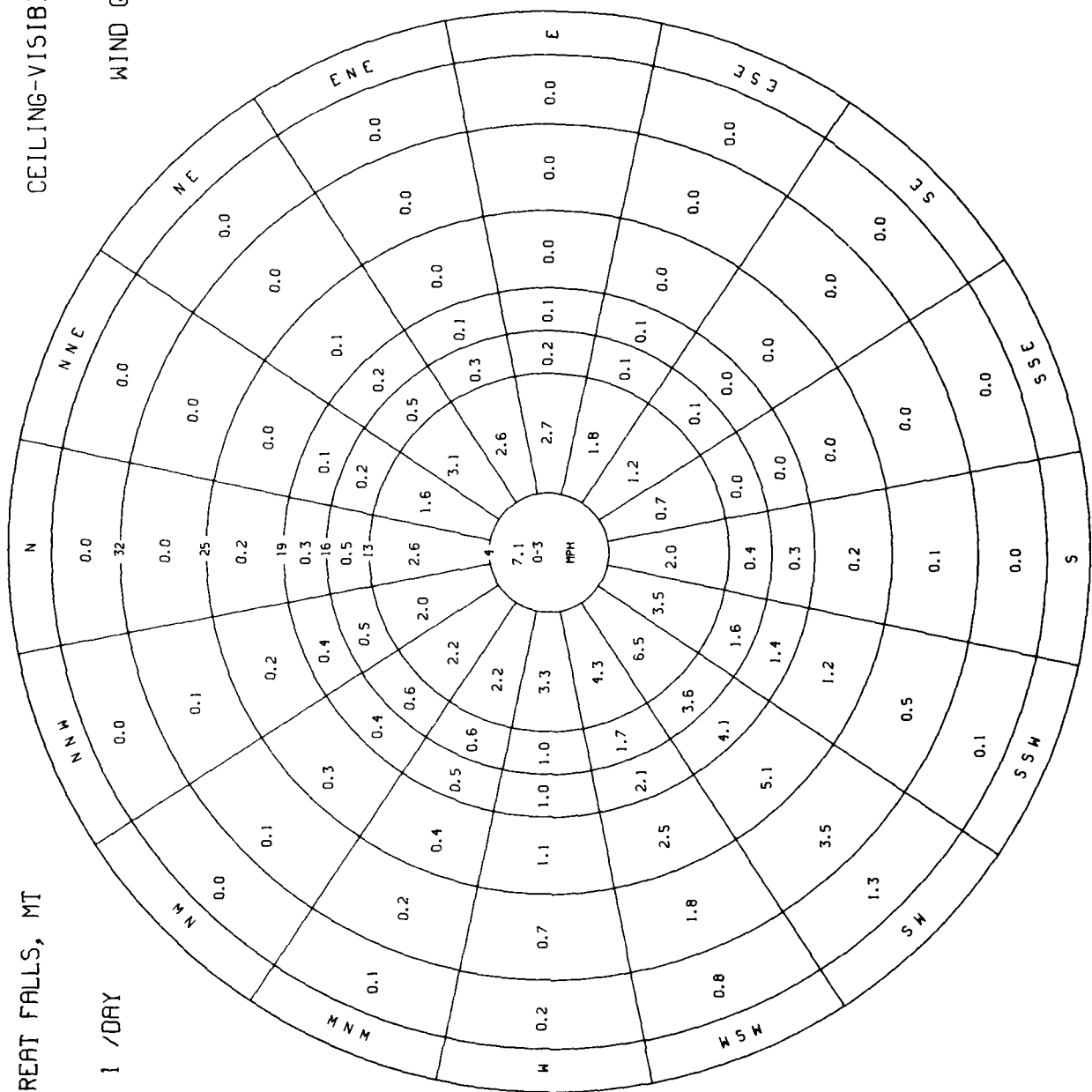
GGW GLASGOW, MT

CLASS 7



CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GTF GREAT FALLS, MT

PERIOD: 1948-1978

CLASS 1 / DAY

STATION NUMBER: 24143

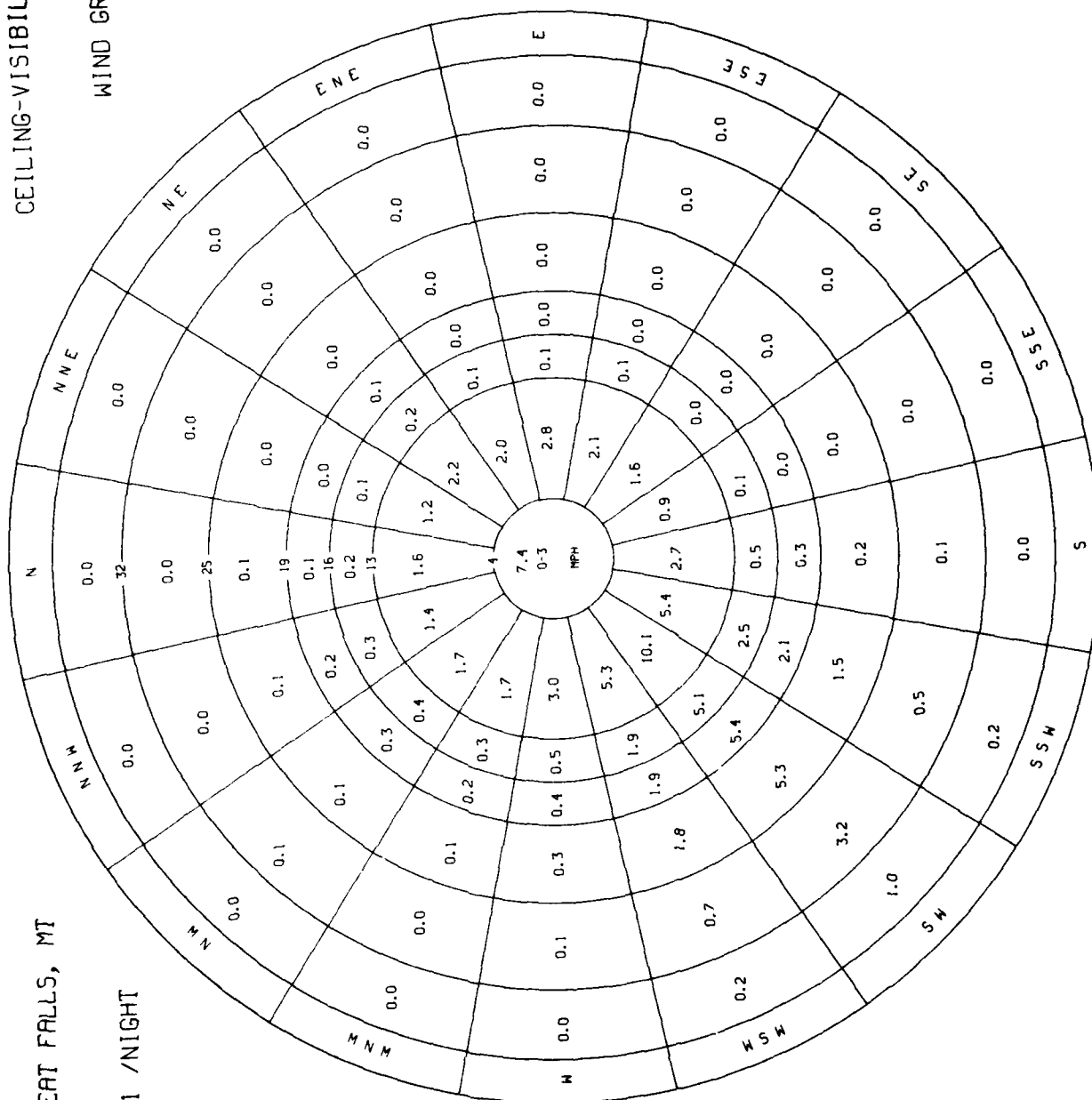
NO. OBS.: 49430

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.5	.5	2.6	2.8	.5	.5	.3	.3	.2	.2	.0	.1	.0	.0	4.1	4.4	9.7
NNE	.3	.3	1.6	1.8	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.3	2.5	8.4
NE	.5	.5	3.1	3.3	.5	.5	.2	.2	.1	.1	.0	.0	.0	.0	4.3	4.6	8.8
ENE	.4	.4	2.6	2.7	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.4	3.6	8.3
E	.4	.5	2.7	2.9	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.5	3.7	7.8
ESE	.4	.4	1.8	1.9	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.4	2.6	7.4
SE	.4	.4	1.2	1.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.8	6.6
SSE	.3	.3	.7	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.1	6.9
S	.3	.3	2.0	2.2	.4	.4	.3	.3	.2	.2	.1	.1	.0	.0	3.3	3.6	10.5
SSW	.2	.2	3.5	3.7	1.6	1.7	1.4	1.5	1.2	1.3	.5	.6	.1	.1	8.5	9.1	14.3
SW	.4	.5	6.5	7.0	3.6	3.8	4.1	4.4	5.1	5.5	3.5	3.8	1.3	1.3	24.5	26.2	17.6
WSW	.3	.4	4.3	4.6	1.7	1.8	2.1	2.2	2.5	2.7	1.8	1.9	.8	.8	13.4	14.3	16.9
W	.4	.4	3.3	3.6	1.0	1.0	1.0	1.1	1.1	1.2	.7	.8	.2	.3	7.8	8.3	14.4
WNW	.3	.3	2.2	2.4	.6	.7	.5	.5	.4	.4	.2	.2	.1	.1	4.2	4.5	12.3
NW	.3	.3	2.2	2.4	.6	.6	.4	.5	.3	.3	.1	.1	.0	.0	3.9	4.2	11.1
NNW	.3	.3	2.0	2.2	.5	.6	.4	.4	.2	.2	.1	.1	.0	.0	3.5	3.8	11.1
CALM	1.5	1.6													1.5	1.6	
TOTAL	7.1	7.6	42.4	45.4	11.8	12.7	11.1	11.9	11.4	12.2	7.0	7.5	2.6	2.7	93.4	100	13.4

WIND GRAPH

GTF GREAT FALLS, MT

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

CLASS 1 / NIGHT

NO. OBS.: 35000

STATION NAME: GTF GREAT FALLS, MT

STATION NUMBER: 24143

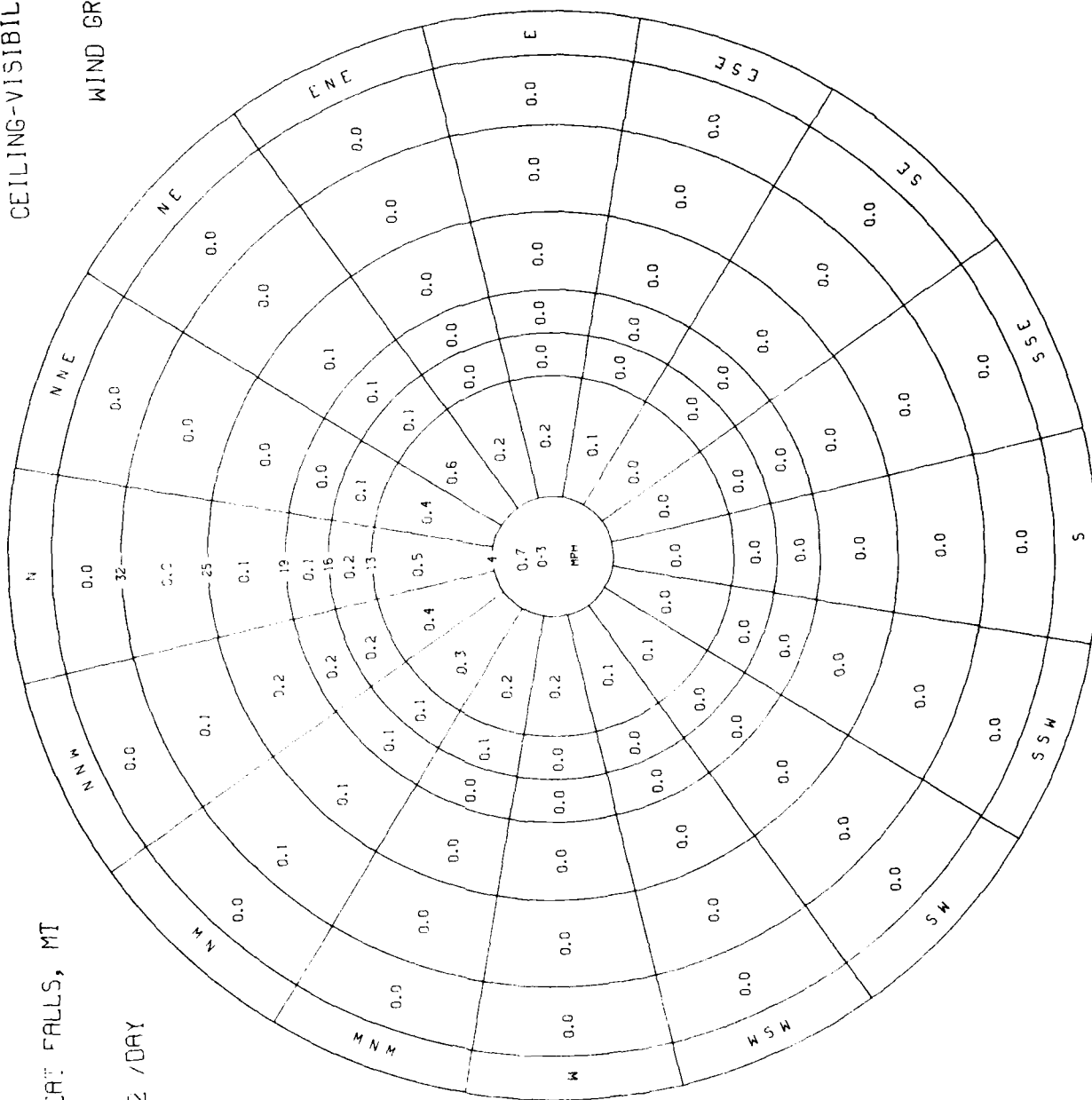
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.4	.4	1.6	1.7	.2	.3	.1	.2	.1	.1	.0	.0	.0	.0	2.5 2.7 9.0
NNE	.3	.3	1.2	1.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.6 1.7 7.6
NE	.4	.4	2.2	2.4	.2	.2	.1	.2	.0	.0	.0	.0	.0	.0	3.0 3.2 8.2
ENE	.4	.5	2.0	2.2	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	2.6 2.8 7.3
E	.5	.5	2.8	3.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	3.4 3.7 7.0
ESE	.4	.4	2.1	2.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.6 2.8 6.9
SE	.4	.4	1.6	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0 2.1 6.5
SSE	.2	.2	.9	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3 1.3 6.9
S	.3	.3	2.7	2.9	.5	.5	.3	.3	.2	.2	.1	.1	.0	.0	4.1 4.4 10.0
SSW	.3	.4	5.4	5.8	2.5	2.7	2.1	2.2	1.5	1.7	.5	.6	.2	.2	12.6 13.5 13.7
SW	.5	.6	10.1	10.9	5.1	5.5	5.4	5.8	5.3	5.7	3.2	3.4	1.0	1.1	30.7 33.0 16.1
WSW	.4	.5	5.3	5.7	1.9	2.0	1.9	2.1	1.8	1.9	.7	.8	.2	.3	12.3 13.2 14.1
W	.4	.5	3.0	3.2	.5	.6	.4	.4	.3	.3	.1	.1	.0	.0	4.8 5.1 10.4
WNW	.2	.2	1.7	1.8	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.6 2.8 10.1
NW	.2	.2	1.7	1.8	.4	.4	.3	.3	.1	.1	.1	.1	.0	.0	2.8 3.0 10.6
NNW	.3	.3	1.4	1.6	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	2.4 2.6 10.0
CALM	1.8	1.9													1.8 1.9
TOTAL	7.4	8.0	45.8	49.3	12.6	13.5	11.2	12.0	9.7	10.4	4.8	5.1	1.5	1.6	92.9 100 12.4

CEILING-VISIBILITY

WIND GRAPH

GTF GREAT FALLS, MT

CLASS 2 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GTF GREAT FALLS, MT

PERIOD: 1948-1978

CLASS 2 / DAY

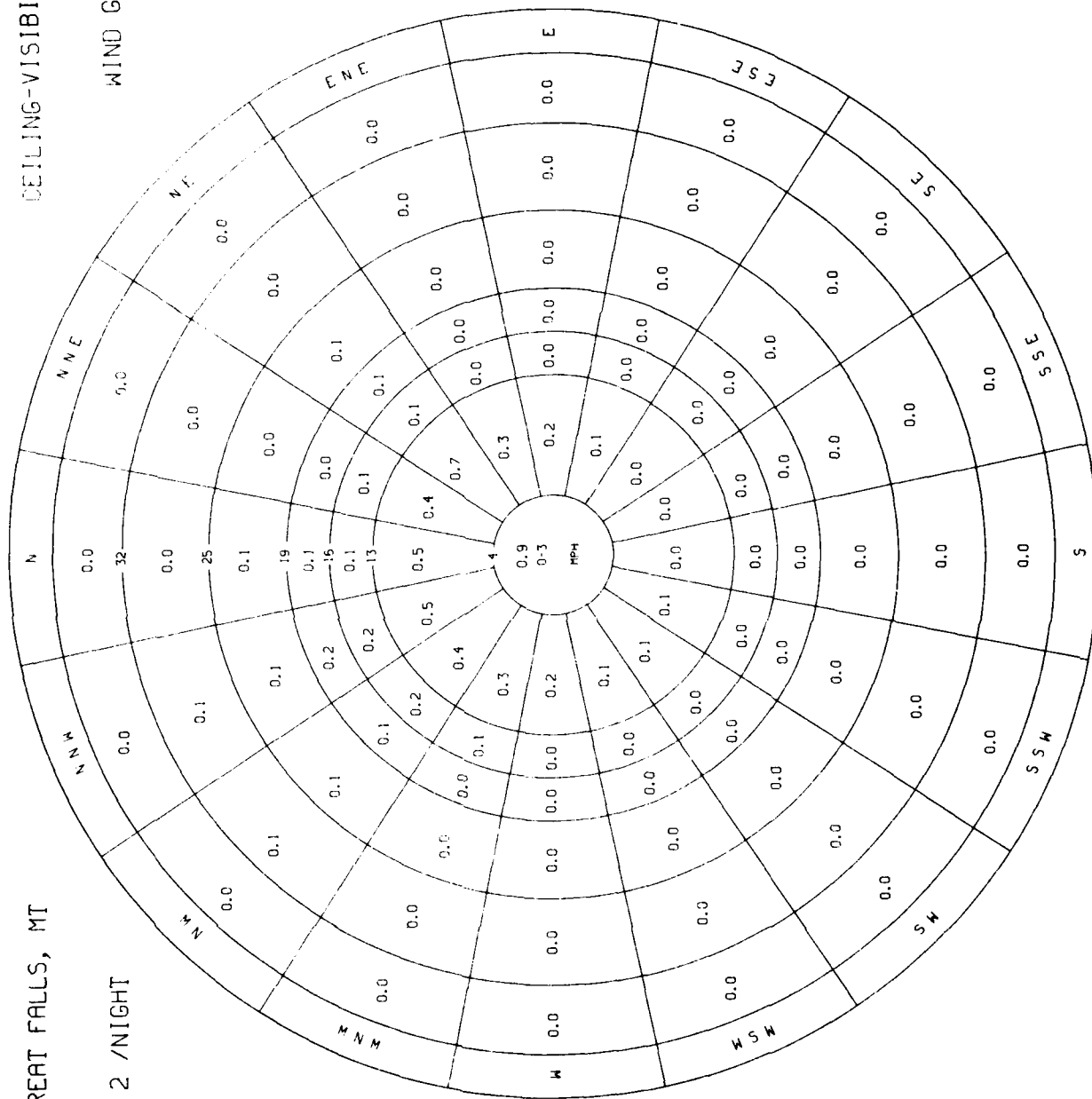
STATION NUMBER: 24143

NO. OBS.: 3473

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.8	.5	8.0	.2	2.4	.1	2.2	.1	1.4	.0	.3	.0	.2	1.0 15.4
NNE	.1	.9	.4	6.5	.1	1.3	.0	.7	.0	.6	.0	.1	.0	.0	.7 10.0
NE	.1	1.0	.6	9.1	.1	1.9	.1	1.1	.1	.8	.0	.1	.0	.0	.9 13.9
ENE	.0	.6	.2	3.7	.0	.7	.0	.3	.0	.2	.0	.1	.0	.0	.4 5.6
E	.0	.4	.2	2.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2 3.0
ESE	.0	.5	.1	1.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 2.1
SE	.0	.5	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 1.3
SSE	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .4
S	.0	.2	.0	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 .8
SSW	.0	.1	.0	.5	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.1 .9
SW	.0	.2	.1	1.2	.0	.4	.0	.1	.0	.2	.0	.2	.0	.1	.2 2.3
WSW	.0	.2	.1	1.8	.0	.3	.0	.1	.0	.3	.0	.1	.0	.1	.2 3.0
W	.0	.5	.2	2.7	.0	.4	.0	.1	.0	.2	.0	.1	.0	.1	.3 4.2
WNW	.0	.2	.2	3.3	.1	1.0	.0	.5	.0	.5	.0	.1	.0	.0	.4 5.8
NW	.0	.5	.3	4.9	.1	2.2	.1	1.9	.1	1.8	.1	.9	.0	.1	.8 12.3
NNW	.0	.6	.4	6.5	.2	3.1	.2	2.6	.2	2.5	.1	.9	.0	.3	1.1 16.6
CALM	.2	2.4													.2 2.4
TOTAL	.7	9.9	3.5	53.4	.9	14.1	.7	10.1	.6	8.7	.2	2.8	.1	.8	6.6 100
															11.2

GTF GREAT FALLS, MT

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: STF GREAT FALLS, MT

CLASS 2 / NIGHT

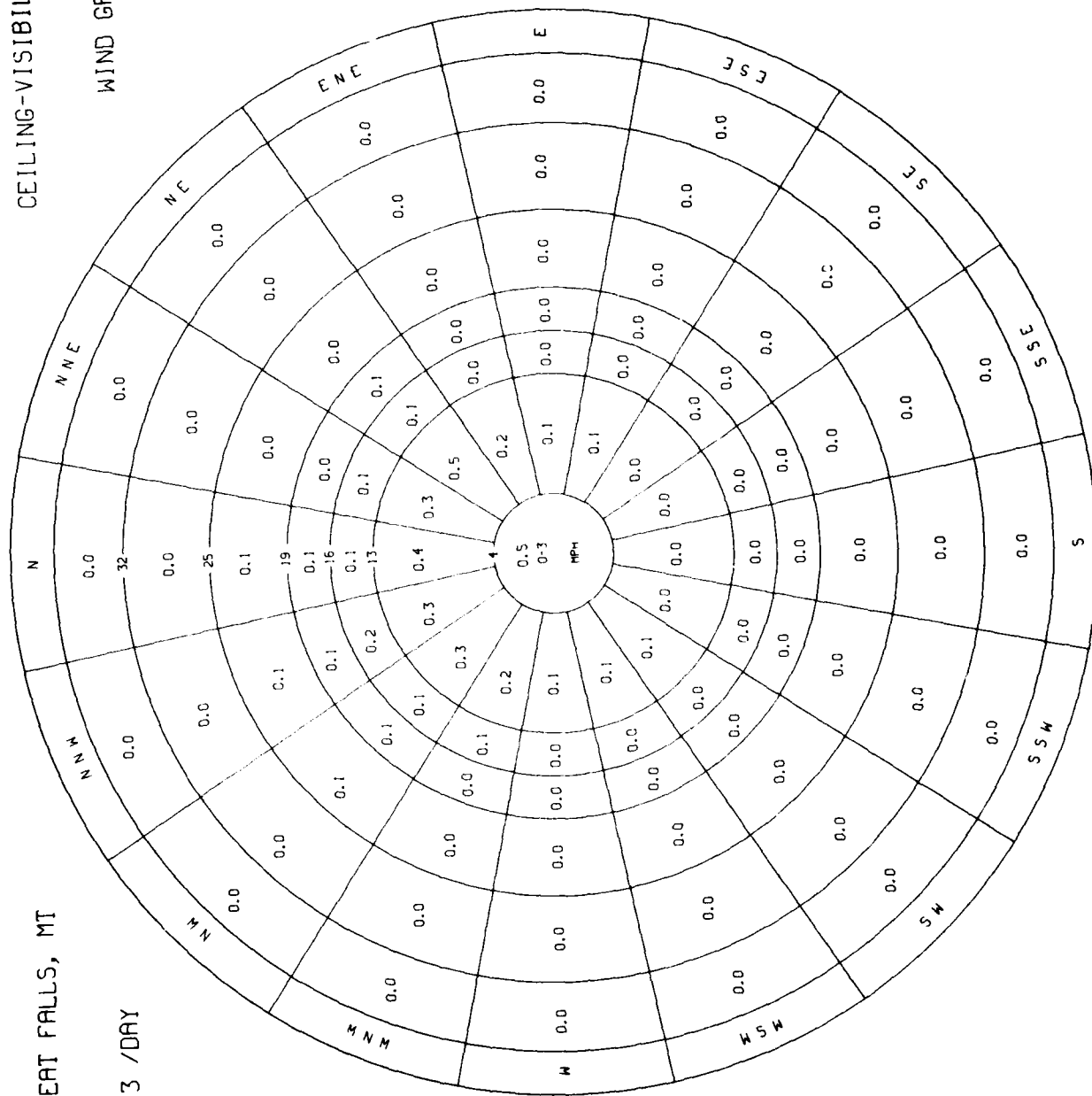
NO. OBS.: 2657

STATION NUMBER: 24143

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	1.0	.5	7.9	.1	1.7	.1	1.4	.1	1.0	.0	.2	.0	.1	.9 13.1
NNE	.0	.5	.4	5.6	.1	1.1	.0	.5	.0	.3	.0	.0	.0	.0	.6 8.1
NE	.1	1.1	.7	9.9	.1	1.7	.1	1.3	.1	.7	.0	.0	.0	.0	1.0 14.8
ENE	.1	.7	.3	3.8	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.4 5.0
E	.1	.8	.2	2.8	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3 3.8
ESE	.0	.5	.1	1.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 1.8
SE	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 1.0
SSE	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .4
S	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .6
SSW	.0	.2	.1	.7	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1 1.1
SW	.0	.3	.1	1.6	.0	.3	.0	.2	.0	.3	.0	.0	.0	.0	.2 2.8
WSW	.0	.5	.1	2.0	.0	.7	.0	.2	.0	.2	.0	.0	.0	.1	.3 3.7
W	.1	.9	.2	3.5	.0	.6	.0	.2	.0	.2	.0	.0	.0	.0	.4 5.4
WNW	.0	.4	.3	4.0	.1	1.0	.0	.3	.0	.5	.0	.0	.0	.0	.4 6.2
NW	.0	.6	.4	5.9	.2	2.3	.1	1.8	.1	1.8	.1	.8	.0	.2	.9 13.4
NNW	.1	.9	.5	7.1	.2	2.6	.2	2.8	.1	1.5	.1	1.0	.0	.2	1.1 16.0
CALM	.2	2.8													.2 2.8
TOTAL	.9	12.1	4.0	57.0	.9	12.3	.6	9.0	.5	6.8	.2	2.2	.0	.6	7.1 100
															10.5

CEILING-VISIBILITY

WIND GRAPH



GTF GREAT FALLS, MT

CLASS 3 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: GTF GREAT FALLS, MT

CLASS 3 / DAY

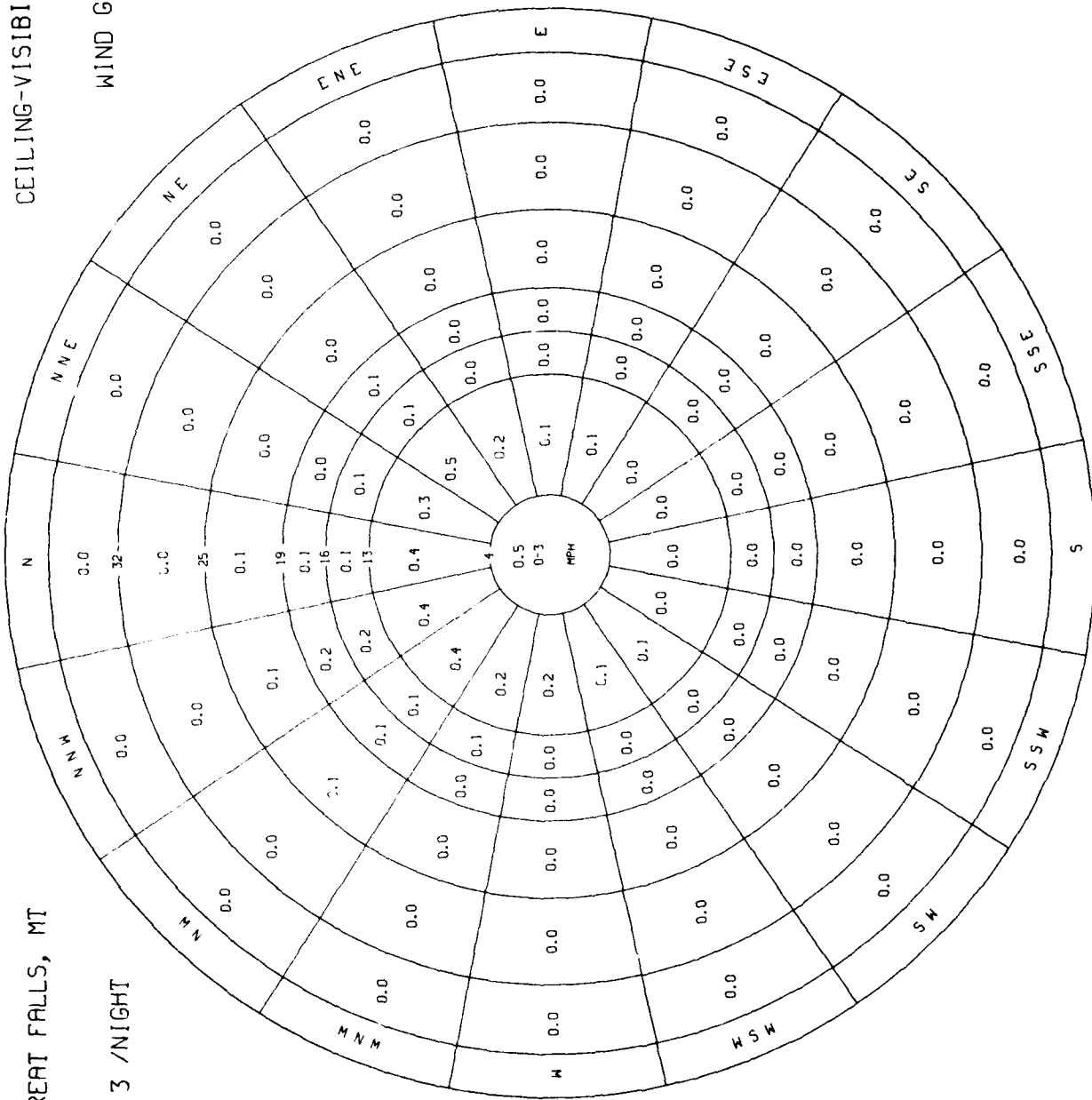
NO. OBS.: 2676

STATION NUMBER: 24143

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.8	.4	7.8	.1	2.7	.1	2.3	.1	1.4	.0	.3	.0	.1	.8 15.4
NNE	.0	.9	.3	6.9	.1	1.3	.0	.7	.0	.4	.0	.1	.0	.0	.5 10.3
NNE	.1	1.0	.5	9.0	.1	1.8	.1	1.0	.0	.7	.0	.1	.0	.0	.7 13.6
ENE	.0	.7	.2	3.4	.0	.7	.0	.3	.0	.1	.0	.0	.0	.0	.3 5.3
E	.0	.3	.1	2.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 2.6
ESE	.0	.3	.1	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 1.8
SE	.0	.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 1.1
SSE	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .4
S	.0	.2	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
SSW	.0	.1	.0	.5	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0 .9
SW	.0	.1	.1	1.2	.0	.4	.0	.1	.0	.1	.0	.1	.0	.0	.1 2.2
WSW	.0	.2	.1	1.9	.0	.4	.0	.3	.0	.3	.0	.1	.0	.1	.2 3.3
W	.0	.6	.1	2.8	.0	.3	.0	.3	.0	.3	.0	.1	.0	.1	.2 4.5
WNW	.0	.1	.2	3.4	.1	1.1	.0	.7	.0	.6	.0	.1	.0	.0	.3 6.1
NW	.0	.5	.3	5.1	.1	2.4	.1	2.3	.1	1.9	.0	.7	.0	.1	.7 13.0
NNW	.0	.7	.3	6.6	.2	3.3	.1	2.7	.1	2.3	.0	.8	.0	.1	.8 16.7
CALM	.1	2.0													.1 2.0
TOTAL	.5	9.3	2.7	53.7	.8	14.8	.6	10.9	.4	8.3	.1	2.5	.0	.5	5.1 100

CEILING-VISIBILITY

WIND GRAPH



GTF GREAT FALLS, MT

CLASS 3 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GTF GREAT FALLS, MT

PERIOD: 1948-1978

CLASS 3 / NIGHT

STATION NUMBER: 24143

NO. OBS.: 1979

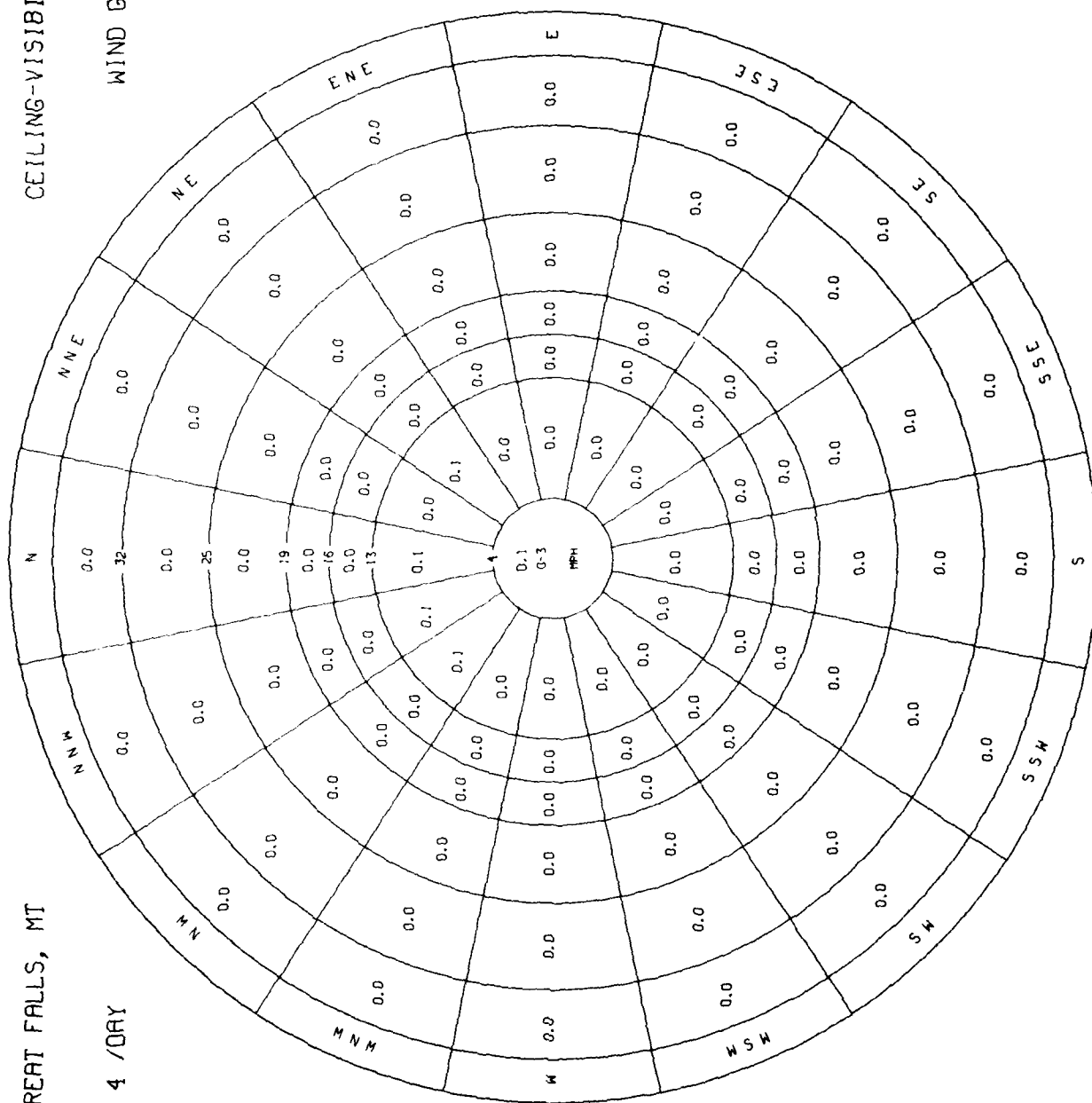
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.9	.4	7.6	.1	1.7	.1	1.5	.1	1.0	.0	.2	.0	.1	.7	12.9	11.2
NNE	.0	.7	.3	5.5	.1	1.1	.0	.5	.0	.4	.0	.0	.0	.0	.4	8.0	9.3
NE	.1	1.1	.5	9.5	.1	1.6	.1	1.5	.0	.4	.0	.1	.0	.0	.7	14.0	10.1
ENE	.0	.6	.2	3.5	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.2	4.3	7.9
E	.0	.7	.1	2.1	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.2	3.0	7.1
ESE	.0	.4	.1	1.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	1.6	6.7
SE	.0	.4	.0	.5	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.9	5.3
SSE	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	4.2
S	.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	6.0
SSW	.0	.3	.0	.8	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	1.2	7.1
SW	.0	.2	.1	1.5	.0	.5	.0	.2	.0	.3	.0	.0	.0	.0	.1	2.7	10.3
WSW	.0	.4	.1	1.9	.0	.8	.0	.2	.0	.2	.0	.0	.0	.1	.2	3.6	11.4
W	.1	1.0	.2	3.6	.0	.6	.0	.3	.0	.3	.0	.1	.0	.0	.3	5.9	9.1
WNW	.0	.3	.2	4.2	.1	1.2	.0	.4	.0	.7	.0	.1	.0	.0	.4	6.8	11.3
NW	.0	.6	.4	6.8	.1	2.3	.1	2.1	.1	2.0	.0	.8	.0	.2	.8	14.9	13.5
NNW	.0	.8	.4	8.1	.2	2.9	.2	3.3	.1	1.5	.0	.8	.0	.1	.9	17.3	12.8
CALM	.1	2.0													.1	2.0	
TOTAL	.5	10.5	3.0	57.3	.7	13.0	.5	10.2	.4	6.7	.1	2.0	.0	.5	5.3	100	10.6

CEILING-VISIBILITY

WIND GRAPH

GTF GREAT FALLS, MT

CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GTF GREAT FALLS, MT

PERIOD: 1948-1978

CLASS 4 / DAY

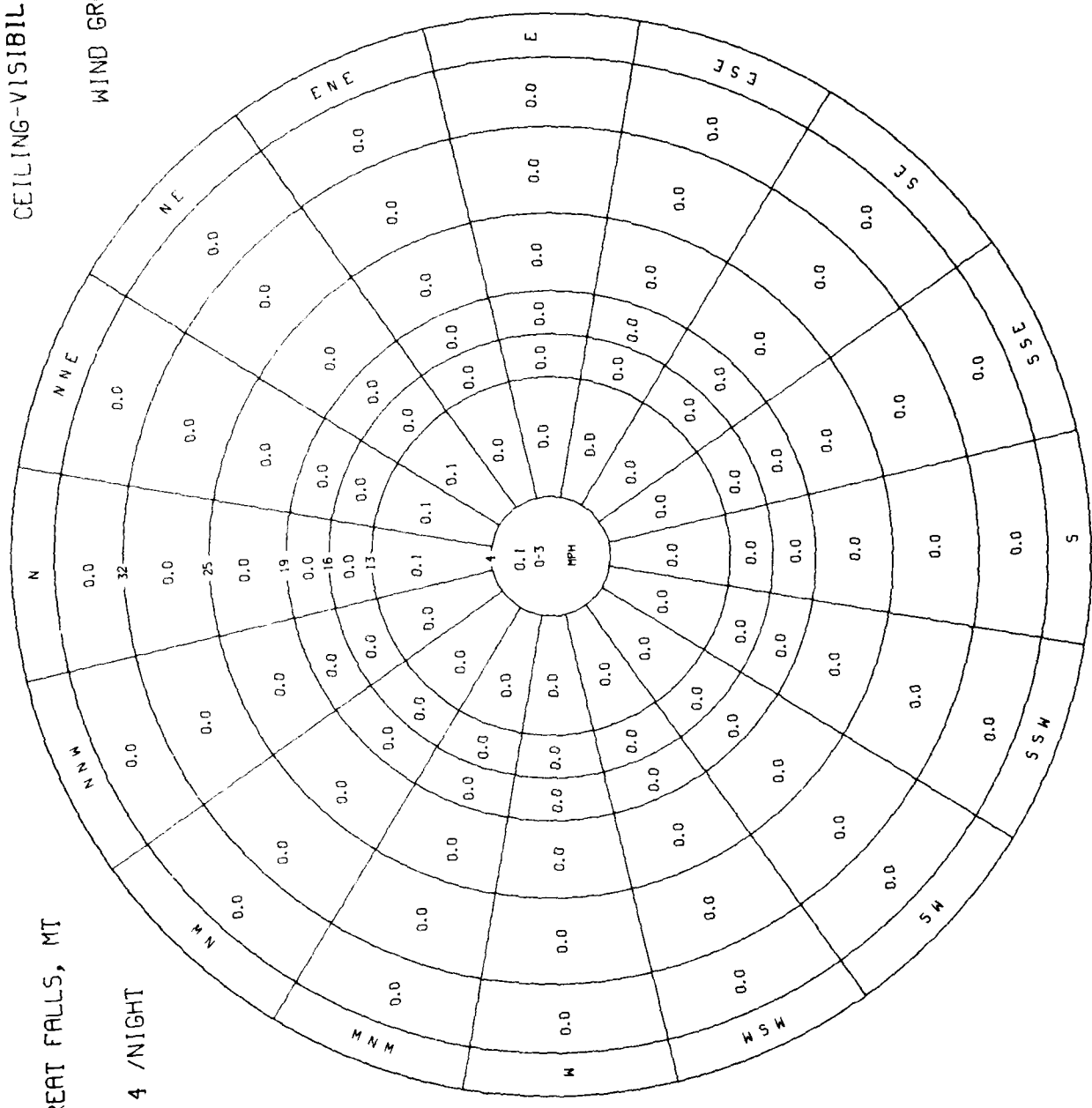
STATION NUMBER: 24143

NO. OBS.: 552

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.7	.1	9.2	.0	2.2	.0	2.0	.0	2.2	.0	.4	.0	.4	.2 17.0
NNE	.0	.9	.0	4.7	.0	1.4	.0	.9	.0	1.3	.0	.2	.0	.0	.1 9.4
NE	.0	.7	.1	9.8	.0	2.0	.0	1.4	.0	.9	.0	.0	.0	.0	.2 14.9
ENE	.0	.7	.0	4.7	.0	.5	.0	.4	.0	.5	.0	.2	.0	.0	.1 7.1
E	.0	.4	.0	2.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.1
ESE	.0	.2	.0	1.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.6
SE	.0	.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0 1.3
SSE	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .2
S	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .4
SSW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .2
SW	.0	.0	.0	.9	.0	.2	.0	.2	.0	.4	.0	.2	.0	.5	.0 2.4
WSW	.0	.2	.0	1.1	.0	.2	.0	.4	.0	.5	.0	.2	.0	.0	.0 2.5
W	.0	.2	.0	2.2	.0	.9	.0	.4	.0	.0	.0	.0	.0	.0	.0 3.6
WNW	.0	.2	.0	3.3	.0	1.1	.0	.2	.0	.5	.0	.2	.0	.0	.1 5.4
NW	.0	.4	.1	5.3	.0	1.4	.0	.9	.0	2.4	.0	1.6	.0	.0	.1 12.0
NNW	.0	.4	.1	6.9	.0	2.7	.0	2.2	.0	3.8	.0	1.6	.0	.4	.2 17.9
CALM	.0	1.1													.0 1.1
TOTAL	.1	6.9	.5	52.5	.1	13.2	.1	8.9	.1	12.5	.0	4.7	.0	1.3	1.0 100
															12.3

CEILING-VISIBILITY

WIND GRAPH



GTF GREAT FALLS, MT

CLASS 4 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: GTF GREAT FALLS, MT

CLASS 4 / NIGHT

NO. OBS.: 383

STATION NUMBER: 24143

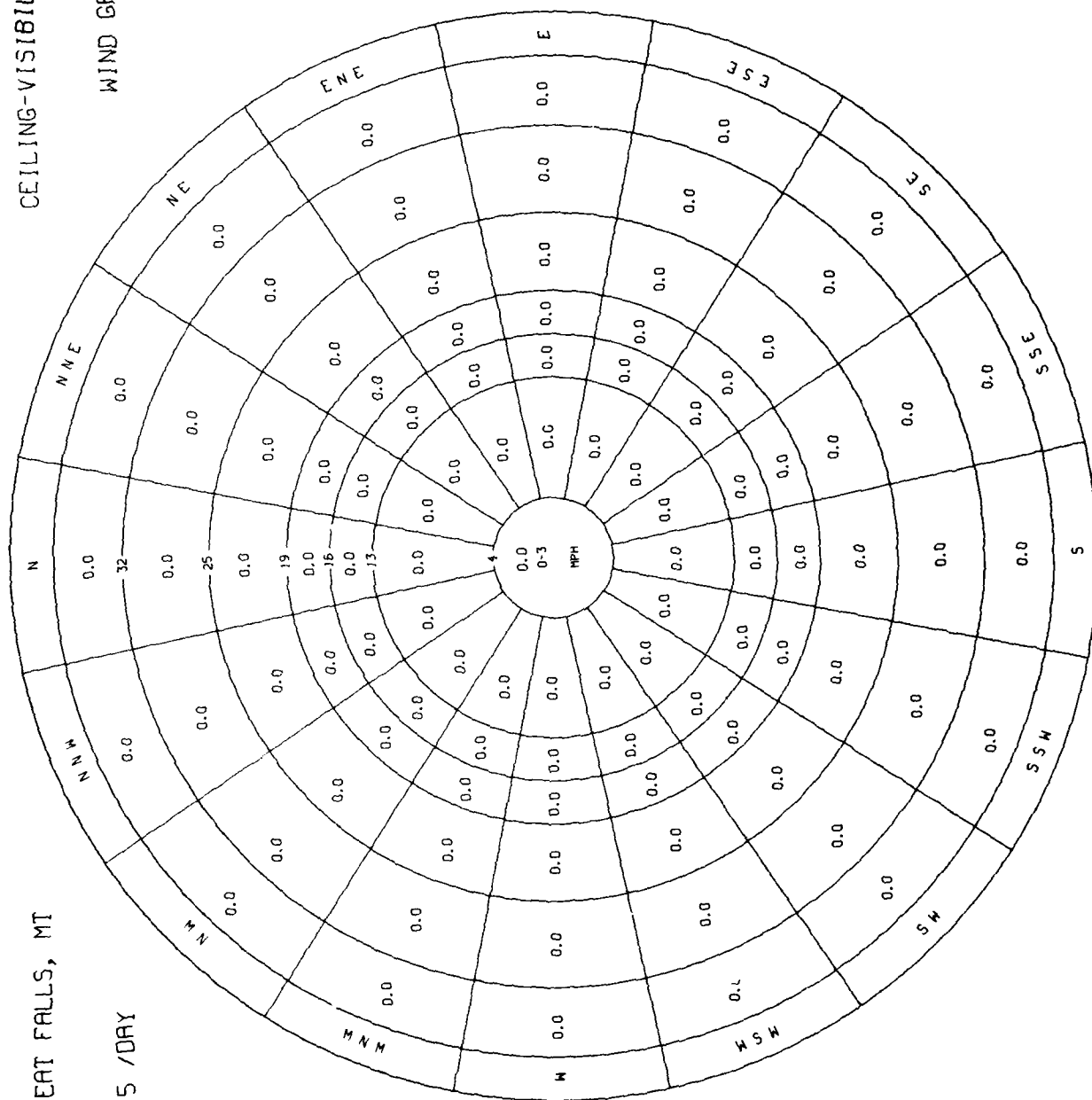
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.8	.1	10.7	.0	2.1	.0	1.0	.0	1.8	.0	.3	.0	.0	.2 16.7
NNE	.0	.3	.1	6.3	.0	1.0	.0	1.3	.0	.0	.0	.0	.0	.0	.1 8.9
NNE	.0	1.0	.1	11.2	.0	1.6	.0	.8	.0	2.1	.0	.0	.0	.0	.2 16.7
ENE	.0	.5	.0	2.9	.0	.0	.0	.3	.0	.8	.0	.0	.0	.0	.0 4.4
E	.0	.8	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
ESE	.0	.5	.0	1.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.1
SE	.0	.5	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.3
SSE	.0	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
S	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
SSW	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .5
SW	.0	.5	.0	.8	.0	.0	.0	.0	.0	.5	.0	.3	.0	.0	.0 2.1
WSW	.0	1.0	.0	2.3	.0	.3	.0	.3	.0	.5	.0	.0	.0	.3	.0 4.7
W	.0	.5	.0	2.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.9
WNW	.0	.8	.0	2.9	.0	.5	.0	.0	.0	.3	.0	.0	.0	.0	.0 4.4
NW	.0	.8	.0	4.7	.0	3.4	.0	1.3	.0	2.3	.0	.3	.0	.0	.1 12.8
NNW	.0	1.0	.0	4.7	.0	1.6	.0	2.3	.0	1.8	.0	2.1	.0	.5	.1 14.1
CALM	.0	3.4													.0 3.4
TOTAL	.1	13.1	.6	54.3	.1	11.5	.1	7.3	.1	10.2	.0	2.9	.0	.8	1.0 100
															11.0

CEILING-VISIBILITY

WIND GRAPH

GTF GREAT FALLS, MT

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GTF GREAT FALLS, MT

PERIOD: 1948-1978

CLASS 5 / DAY

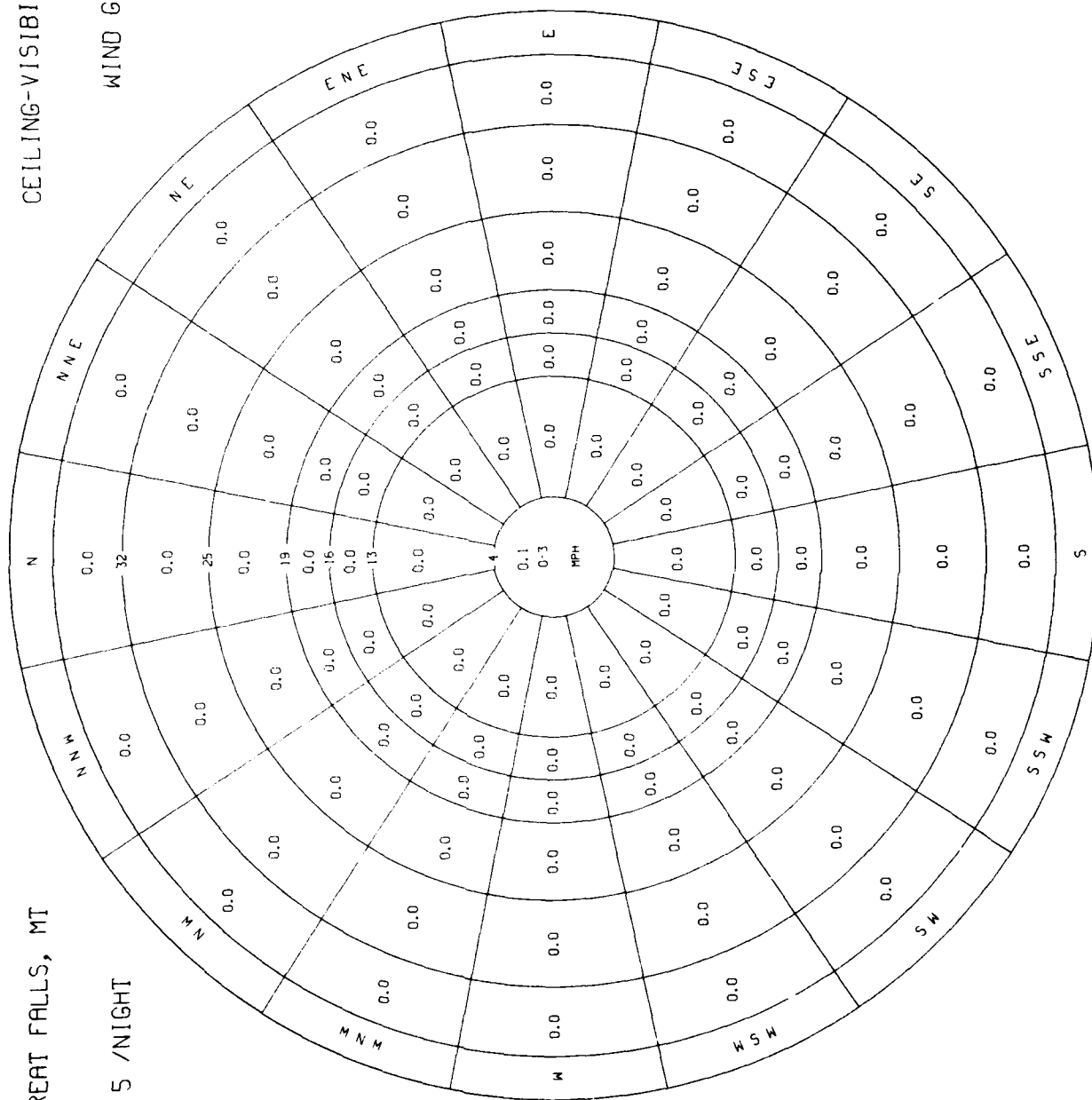
STATION NUMBER: 24143

NO. OBS.: 123

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.8	.0	9.8	.0	.0	.0	3.3	.0	.0	.0	2.4	.0	.8	.0 17.1
NNE	.0	.8	.0	5.7	.0	.8	.0	.0	.0	1.6	.0	.0	.0	.0	.0 8.9
NE	.0	1.6	.0	8.1	.0	4.1	.0	2.4	.0	2.4	.0	.0	.0	.0	.0 18.7
ENE	.0	.0	.0	1.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
E	.0	.8	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.5
ESE	.0	2.4	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.7
SE	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
SSE	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
S	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
SW	.0	.8	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0 4.1
WSW	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
W	.0	.8	.0	1.6	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0 3.3
WNW	.0	1.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.3
NW	.0	.0	.0	1.6	.0	2.4	.0	.8	.0	.8	.0	.8	.0	.0	.0 6.5
NNW	.0	.0	.0	6.5	.0	2.4	.0	4.1	.0	.8	.0	.0	.0	.8	.0 14.6
CALM	.0	5.7													.0 5.7
TOTAL	.0	15.4	.1	49.6	.0	10.6	.0	10.6	.0	6.5	.0	4.1	.0	3.3	.2 100

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GTF GREAT FALLS, MT

PERIOD: 1948-1978

CLASS 5 / NIGHT

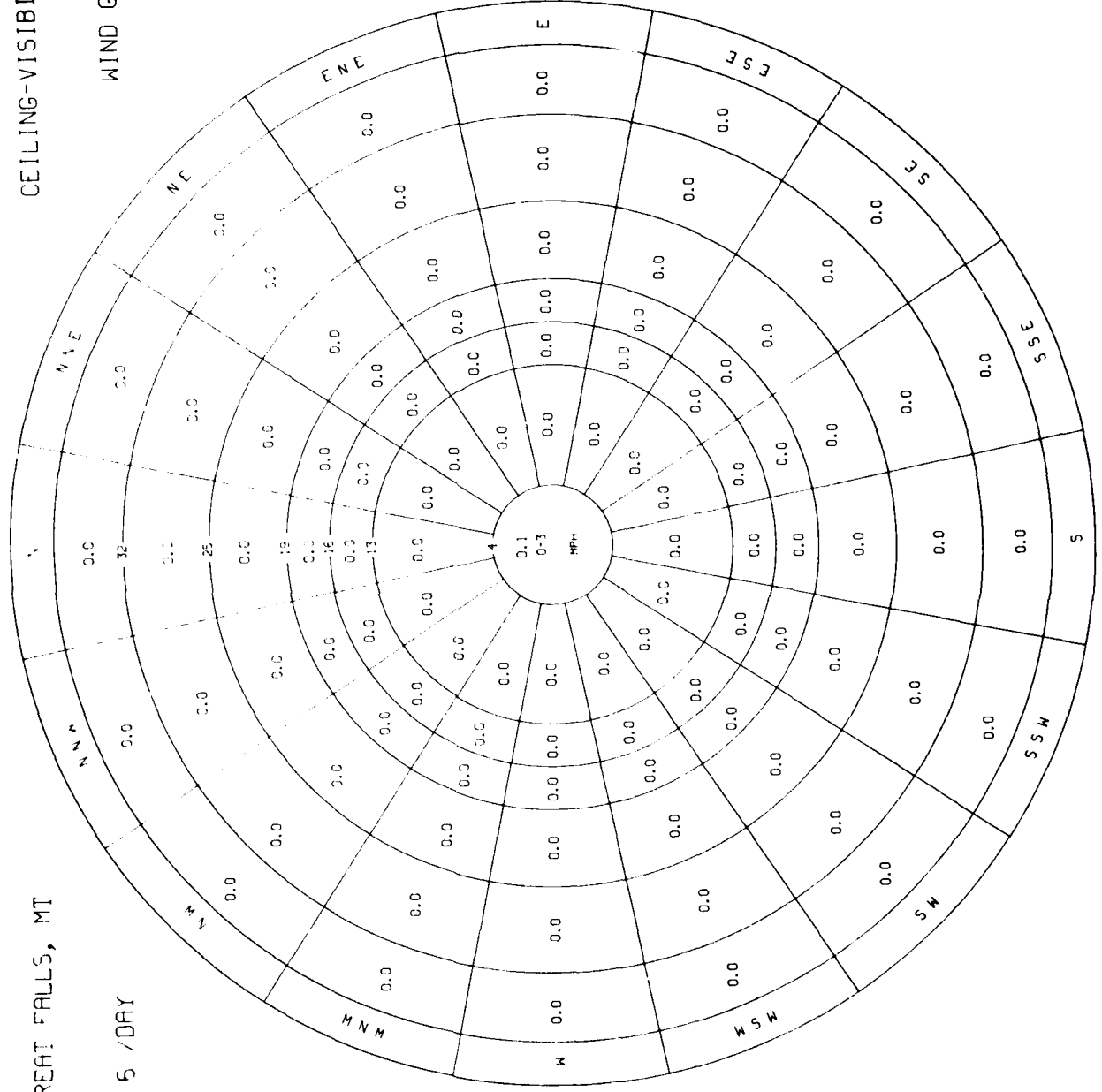
STATION NUMBER: 24143

NO. OBS.: 132

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.5	.0	5.3	.0	.8	.0	1.5	.0	.8	.0	.8	.0	.0	.0 10.6
NNE	.0	.0	.0	5.3	.0	2.3	.0	.0	.0	.8	.0	.0	.0	.0	.0 8.3
NE	.0	.8	.0	11.4	.0	1.5	.0	1.5	.0	1.5	.0	.0	.0	.0	.1 16.7
ENE	.0	1.5	.0	9.1	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0 11.4
E	.0	.8	.0	7.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 8.3
ESE	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
SE	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 8.3
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
S	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
SSW	.0	.8	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0 1.5
SW	.0	.8	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
WSW	.0	.0	.0	3.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.5
W	.0	.8	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.5
WNW	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.5
NW	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	3.0	.0	.0	.0 4.5
NNW	.0	2.3	.0	3.0	.0	3.0	.0	.0	.0	2.3	.0	1.5	.0	.8	.0 12.9
CALM	.0	6.1													.0 6.1
TOTAL	.1	15.9	.2	59.1	.0	9.1	.0	4.5	.0	5.3	.0	5.3	.0	.8	.4 100
															9.9

CEILING-VISIBILITY

WIND GRAPH



GTF GREAT FALLS, MT

CLASS 5 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: STF GREAT FALLS, VT

CLASS 6 / DAY

NO. OBS.: 122

STATION NUMBER: 24143

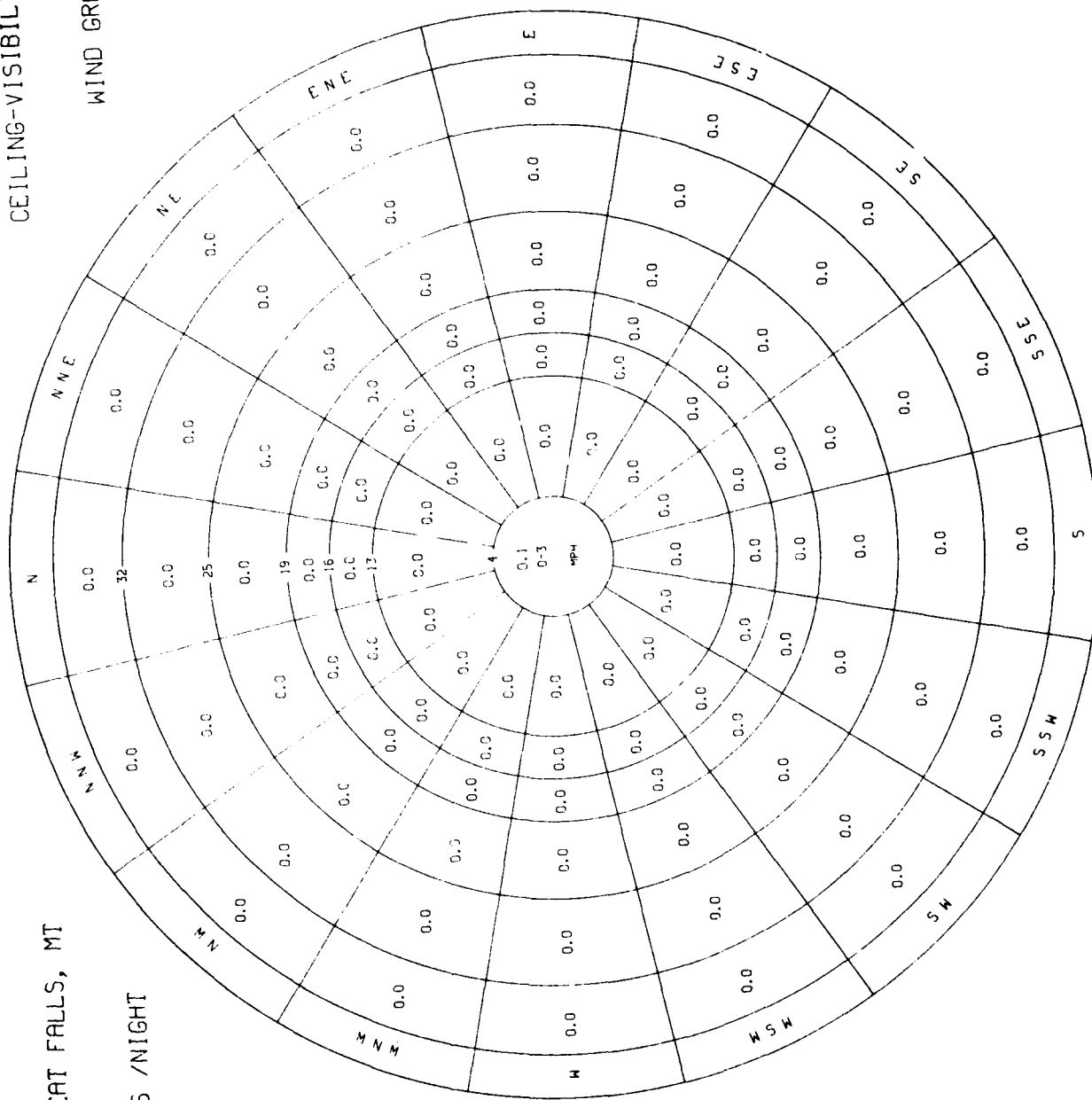
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.6	.0	4.1	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8	.0	7.4	10.7
NNE	.0	.8	.0	8.6	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	8.2	8.4
NE	.0	.8	.0	3.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.5	8.6
ENE	.0	.0	.0	6.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.6	7.7
E	.0	2.5	.0	3.3	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	6.6	6.3
ESE	.0	3.3	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	5.1
SE	.0	1.6	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	5.0
SSE	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	6.0
S	.0	.8	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	4.7
SSW	.0	.8	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	6.7
SW	.0	.8	.0	2.5	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	4.1	8.0
WSW	.0	.8	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	4.7
W	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	7.0
WNW	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	7.7
NW	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	4.1	9.6
NNW	.0	.0	.0	3.3	.0	1.5	.0	1.6	.0	1.6	.0	.0	.0	1.6	.0	9.8	18.8
CALM	.0	15.6														15.6	
TOTAL	1	31	1	55.7	.0	4.1	.0	4.1	.0	1.6	.0	.8	.0	2.5	.2	100	7.5

CEILING-VISIBILITY

WIND GRAPH

GTF GREAT FALLS, MT

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: GTF GREAT FALLS, MT

CLASS 6 / NIGHT

NO. OBS.: 163

STATION NUMBER: 24143

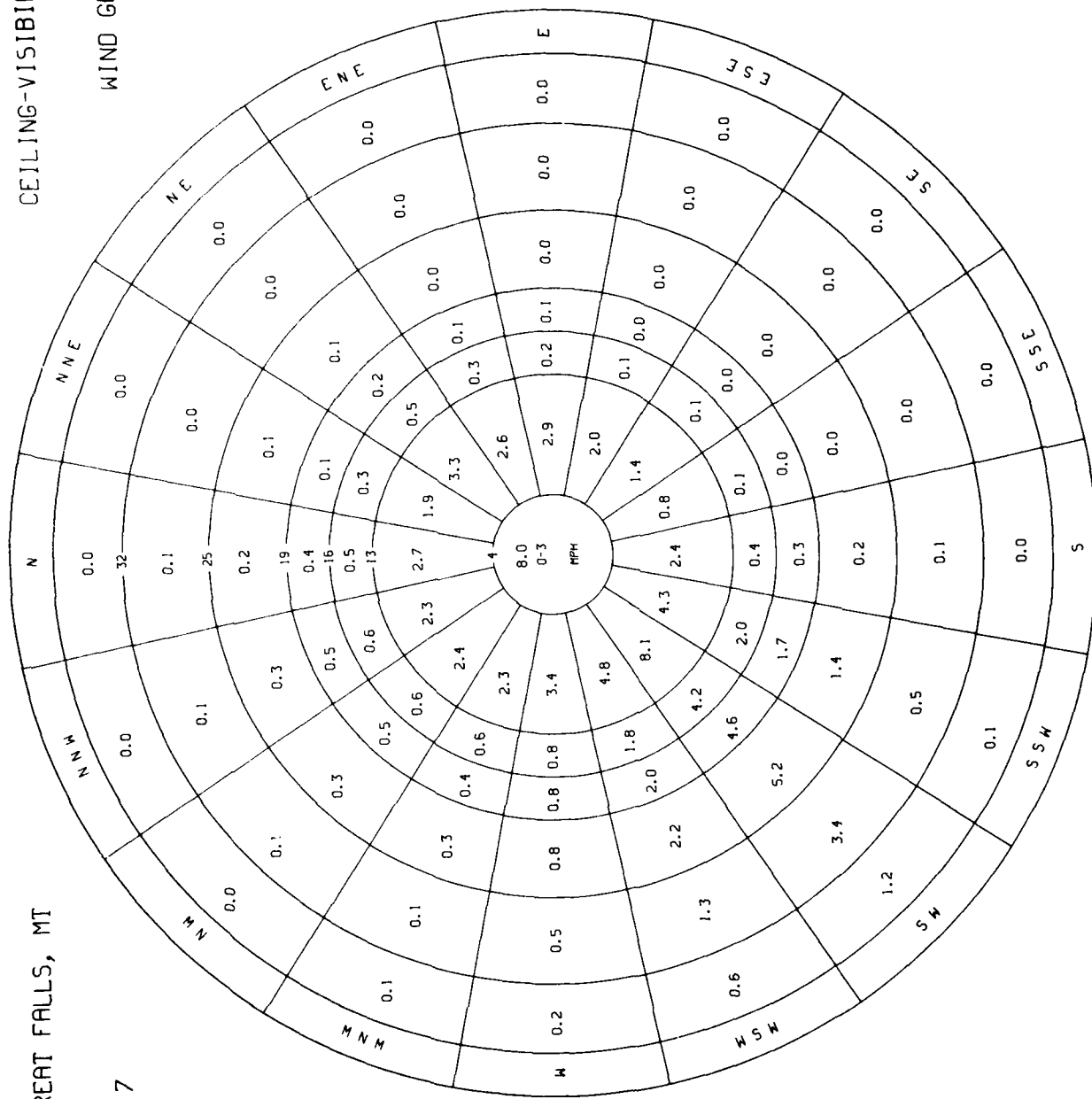
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	2.5	.0	4.9	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	8.6	7.1
NNE	.0	.0	.0	5.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	7.7
NE	.0	1.8	.0	10.4	.0	3.7	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.1	17.8	9.5
ENE	.0	2.5	.0	5.5	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.2	7.5
E	.0	2.5	.0	11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	13.5	5.6
ESE	.0	1.2	.0	1.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	8.0
SE	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	4.5
SSE	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.0
S	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.0
SSW	.0	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	1.2	11.0
SW	.0	1.2	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	6.5
WSW	.0	.6	.0	1.2	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	2.5	8.8
W	.0	1.2	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	5.6
WNW	.0	1.8	.0	2.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	5.9
NW	.0	.6	.0	2.5	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	.0	4.3	13.0
NNW	.0	1.2	.0	4.3	.0	.6	.0	.0	.0	.0	.0	.6	.0	.6	.0	.0	7.4	11.3
CALM	.0	8.0														.0	8.0	
TOTAL	.1	27.0	.3	58.9	.0	8.0	.0	3.1	.0	1.2	.0	.6	.0	1.2	.4	100		7.3

CEILING-VISIBILITY

WIND GRAPH

GTF GREAT FALLS, MT

CLASS 7

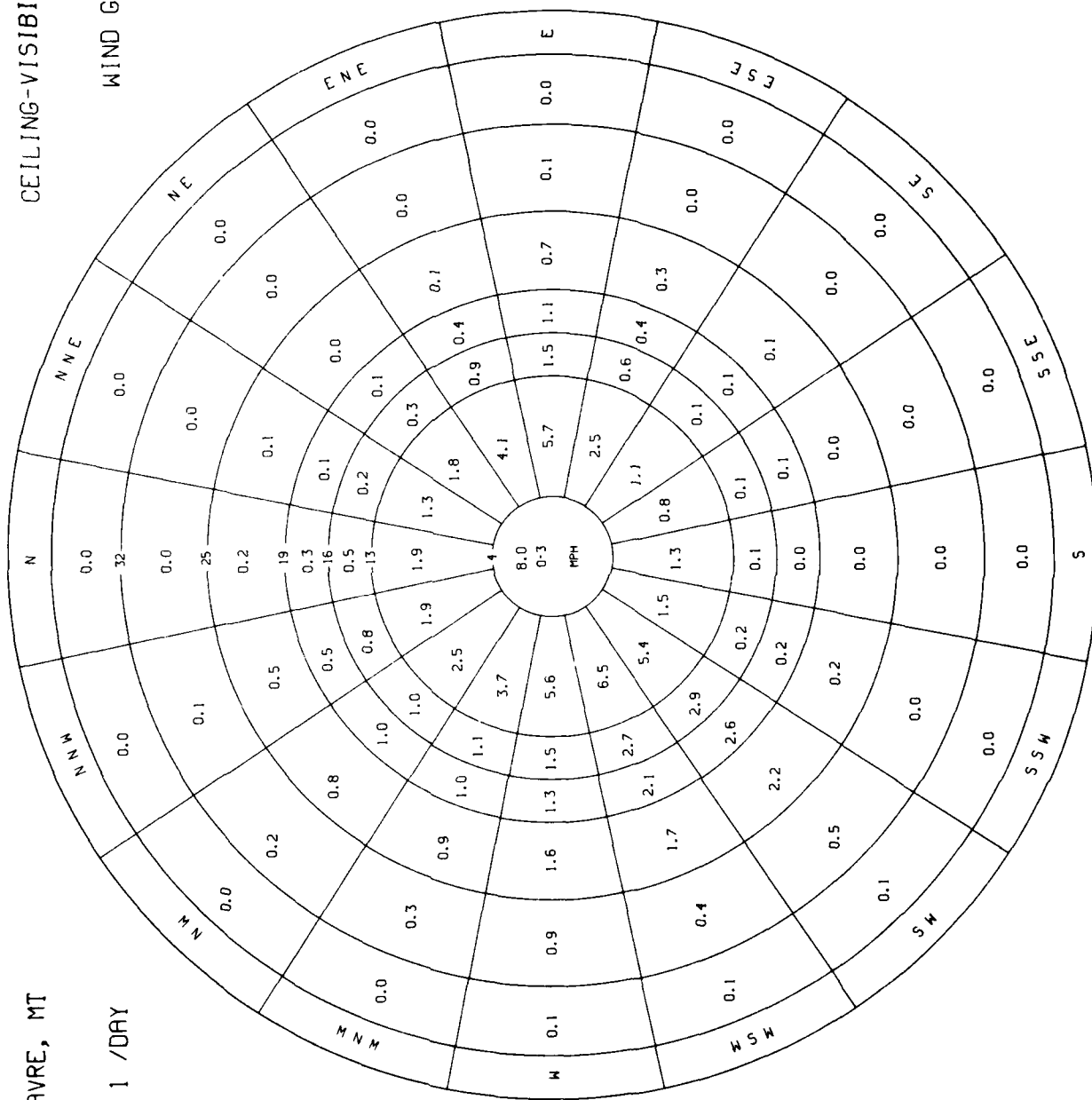


CEILING-VISIBILITY

WIND GRAPH

HVR HAVRE, MT

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HVR HAVRE, MT

PERIOD: 1967-1973

CLASS 1 / DAY

STATION NUMBER: 94012

NO. OBS.: 11405

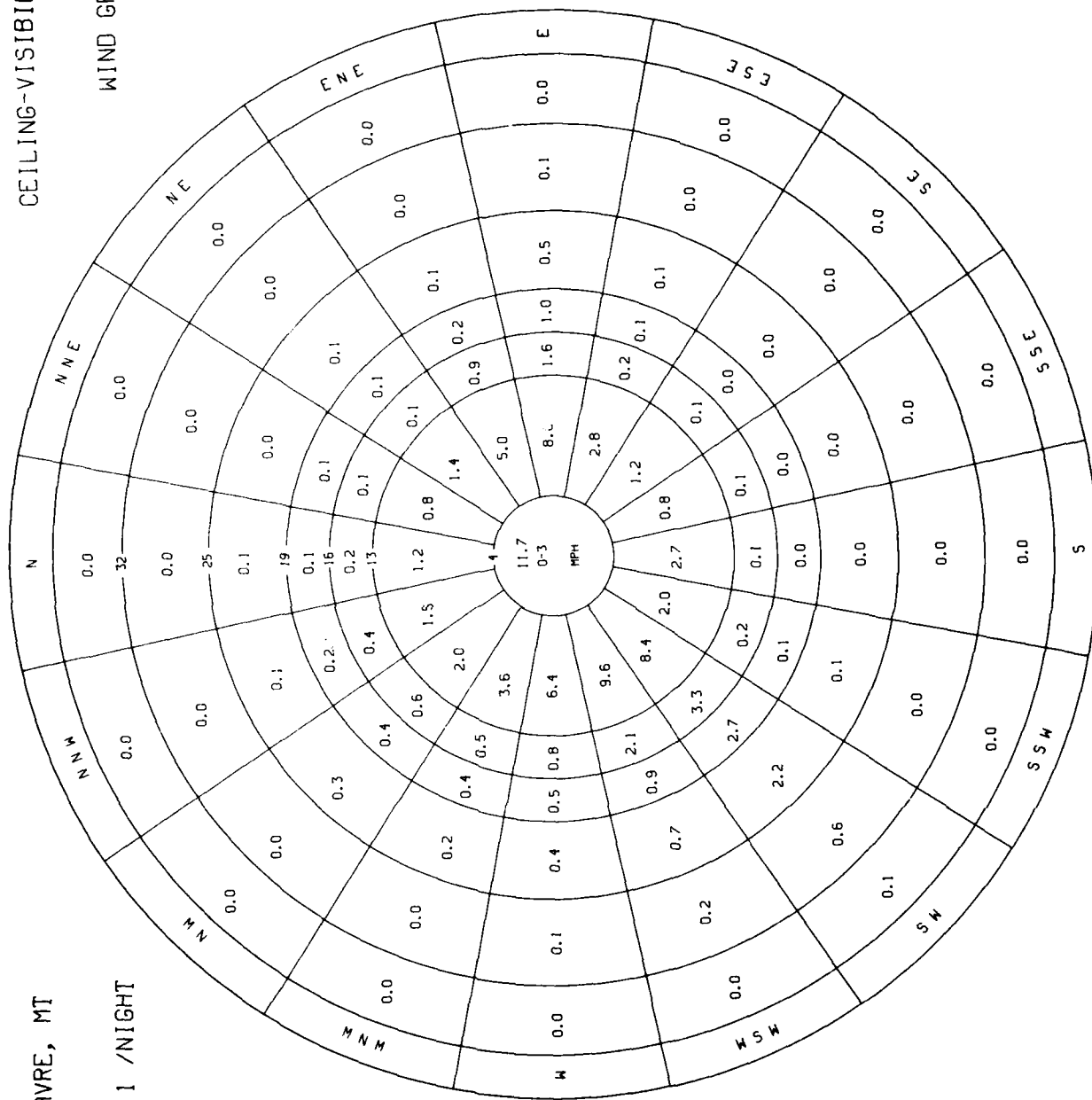
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.3	.3	1.9	2.0	.5	.5	.3	.3	.2	.2	.0	.0	.0	.0	3.1	3.3	10.2
NNE	.2	.2	1.3	1.4	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	1.9	2.0	9.3
NE	.3	.3	1.8	1.9	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.5	2.6	8.3
ENE	.3	.3	4.1	4.3	.9	1.0	.4	.4	.1	.1	.0	.0	.0	.0	5.7	6.1	9.8
E	.4	.5	5.7	6.1	1.5	1.6	1.1	1.2	.7	.7	.1	.1	.0	.0	9.6	10.2	10.9
ESE	.1	.2	2.5	2.7	.6	.7	.4	.5	.3	.3	.0	.0	.0	.0	4.0	4.2	10.2
SE	.2	.2	1.1	1.2	.1	.1	.1	.2	.1	.1	.0	.0	.0	.0	1.7	1.9	8.7
SSE	.2	.2	.8	.8	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	1.1	1.2	7.0
S	.2	.3	1.3	1.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.8	7.3
SSW	.1	.1	1.5	1.6	.2	.3	.2	.2	.2	.2	.0	.0	.0	.0	2.3	2.5	10.2
SW	.3	.3	5.4	5.8	2.9	3.1	2.6	2.8	2.2	2.3	.5	.6	.1	.1	14.0	14.9	13.9
WSW	.3	.3	6.5	7.0	2.7	2.9	2.1	2.2	1.7	1.8	.4	.5	.1	.1	13.8	14.7	13.0
W	.5	.5	5.6	6.0	1.5	1.6	1.3	1.3	1.6	1.7	.9	1.0	.1	.1	11.4	12.2	13.3
WNW	.3	.4	3.7	3.9	1.1	1.1	1.0	1.1	.9	.9	.3	.3	.0	.1	7.3	7.8	12.5
NW	.2	.3	2.5	2.7	1.0	1.1	1.0	1.1	.8	.9	.2	.2	.0	.0	5.9	6.3	13.4
NNW	.2	.2	1.9	2.0	.8	.9	.5	.6	.5	.5	.1	.1	.0	.0	4.0	4.3	12.3
CALM	3.9	4.2													3.9	4.2	
TOTAL	8.0	8.6	47.5	50.6	14.6	15.5	11.4	12.2	9.3	9.9	2.7	2.9	.3	.4	93.8	100	11.4

CEILING-VISIBILITY

WIND GRAPH

HVR HAVRE, MT

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1967-1973

STATION NAME: HVR HAVRE, MT

CLASS 1 / NIGHT

NO. OBS.: 7728

STATION NUMBER: 94012

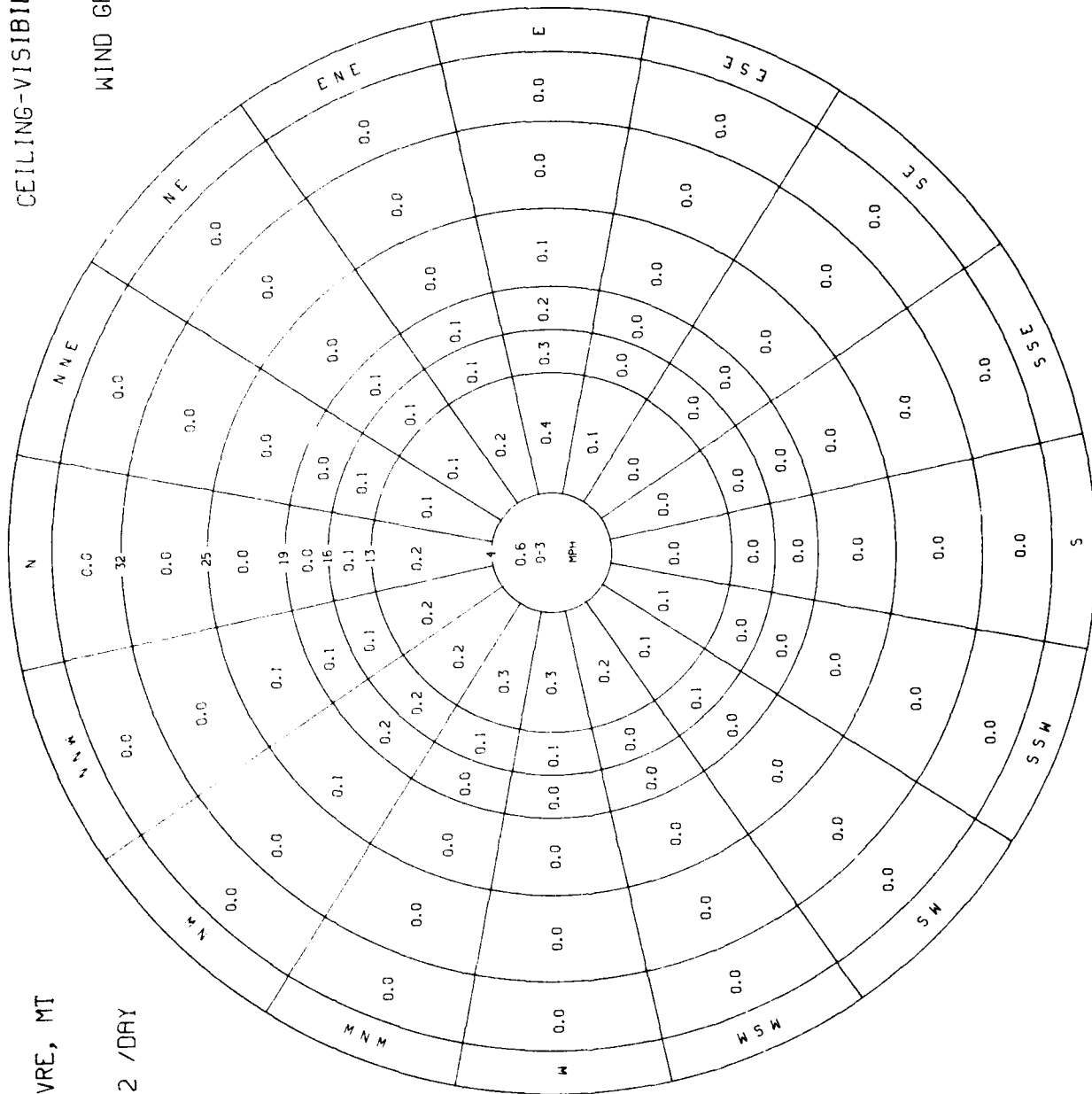
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	.2	1.2	1.3	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	1.7	1.9	8.6
NNE	.2	.2	.8	.8	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.2	1.3	8.4
NE	.2	.2	1.4	1.4	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	1.8	1.9	8.6
ENE	.4	.4	5.0	5.4	.9	.9	.2	.2	.1	.1	.0	.0	.0	.0	6.5	7.0	8.8
E	.6	.6	8.6	9.1	1.6	1.7	1.0	1.0	.5	.5	.1	.1	.0	.0	12.3	13.1	9.8
ESE	.5	.6	2.8	3.0	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	3.7	3.9	7.2
SE	.4	.4	1.2	1.3	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	1.7	1.9	6.3
SSE	.3	.3	.8	.9	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	1.3	1.3	6.7
S	.4	.4	2.7	2.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	3.2	3.4	6.9
SSW	.2	.2	2.0	2.1	.2	.3	.1	.1	.1	.1	.0	.0	.0	.0	2.6	2.8	8.5
SW	.4	.4	8.4	8.9	3.3	3.5	2.7	2.8	2.2	2.3	.6	.7	.1	.1	17.6	18.8	13.0
WSW	.5	.5	9.6	10.3	2.1	2.3	.9	1.0	.7	.7	.2	.2	.0	.0	14.1	15.0	10.4
W	.5	.5	6.4	6.8	.8	.9	.5	.5	.4	.4	.1	.2	.0	.0	8.8	9.3	9.3
WNW	.4	.4	3.6	3.8	.5	.6	.4	.4	.2	.2	.0	.1	.0	.1	5.2	5.5	9.3
NW	.2	.2	2.0	2.1	.6	.6	.4	.4	.3	.3	.0	.1	.0	.0	3.5	3.7	11.2
NNW	.2	.2	1.5	1.6	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.4	2.6	9.8
CALM	6.1	6.5													6.1	6.5	
TOTAL	11.7	12.4	57.9	61.6	11.4	12.1	6.8	7.3	4.7	5.0	1.3	1.4	.2	.2	93.9	100	9.4

CEILING-VISIBILITY

WIND GRAPH

HVR HAVRE, MT

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME:HVR HAVRE, MT

PERIOD:1967-1973

CLASS 2 / DAY

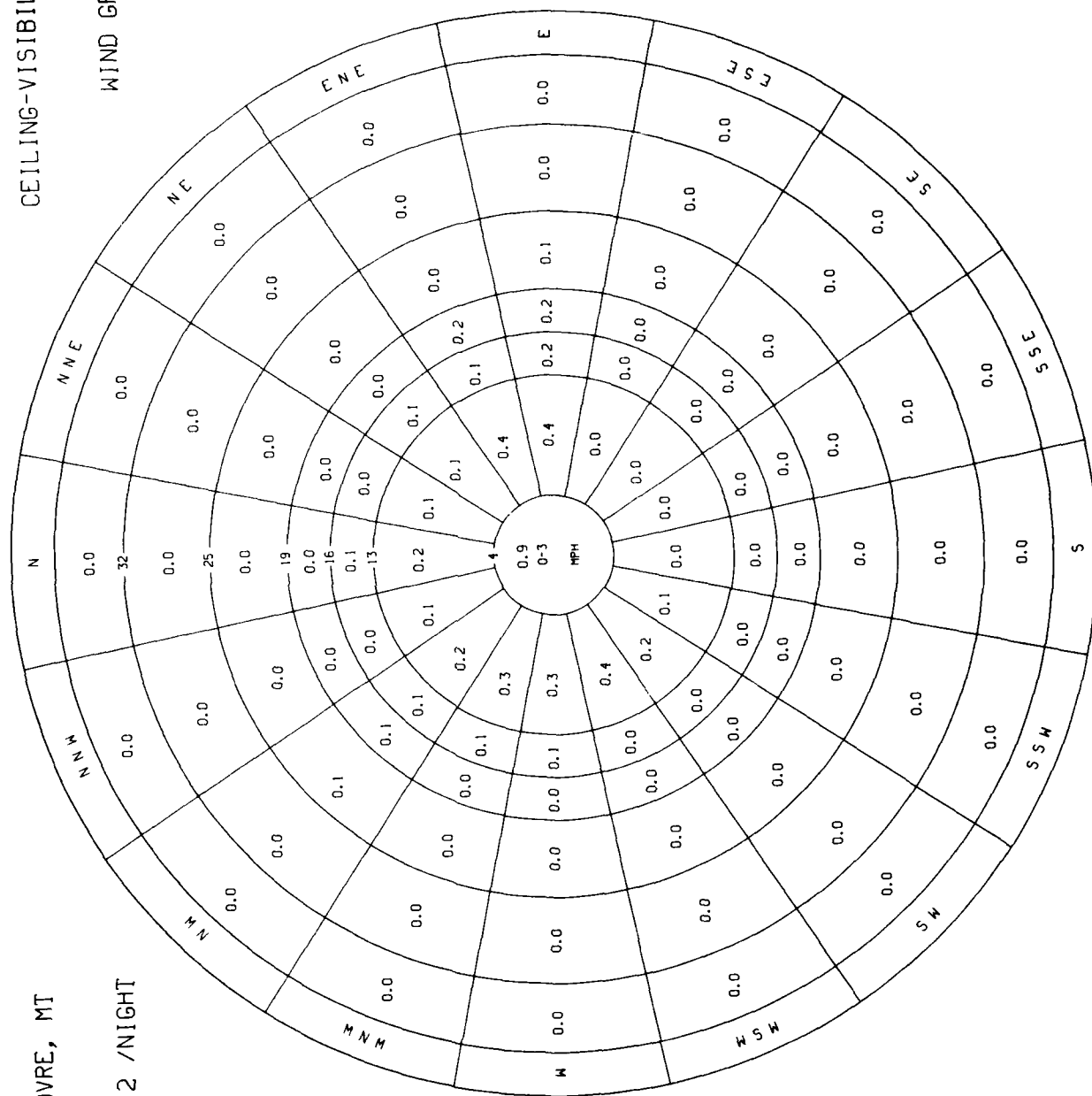
STATION NUMBER:94012

NO. OBS.: 752

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
																C	D
N	.0	.4	.2	3.9	.1	1.3	.0	.8	.0	.8	.0	.0	.0	.1	.5	7.3	12.0
NNE	.0	.3	.1	2.1	.1	1.3	.0	.8	.0	.5	.0	.3	.0	.0	.3	5.3	13.4
NE	.0	.1	.1	2.1	.1	.9	.1	1.2	.0	.4	.0	.0	.0	.0	.3	4.8	12.4
ENE	.0	.0	.2	4.0	.1	2.3	.1	1.9	.0	.7	.0	.0	.0	.0	.5	8.8	12.5
E	.0	.7	.4	6.6	.3	4.7	.2	3.5	.1	2.3	.0	.7	.0	.0	1.1	18.4	13.6
ESE	.0	.1	.1	2.3	.0	.1	.0	.4	.0	.4	.0	.1	.0	.0	.2	3.5	10.9
SE	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	5.0
SSE	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	5.0
S	.0	.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	4.4
SSW	.0	.7	.1	1.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.9	5.9
SW	.0	.1	.1	2.3	.1	1.1	.0	.8	.0	.3	.0	.0	.0	.0	.3	4.5	11.4
WSW	.0	.3	.2	3.9	.0	.3	.0	.5	.0	.8	.0	.0	.0	.0	.4	5.7	10.5
W	.0	.7	.3	4.8	.1	1.3	.0	.4	.0	.4	.0	.0	.0	.0	.5	7.6	9.8
WNW	.0	.4	.3	4.3	.1	1.5	.0	.8	.0	.1	.0	.1	.0	.0	.4	7.2	11.4
NW	.0	.0	.2	3.1	.2	2.9	.2	2.5	.1	1.1	.0	.3	.0	.0	.6	9.8	14.4
NNW	.0	.3	.2	3.5	.1	1.9	.1	1.3	.1	1.1	.0	.7	.0	.4	.6	9.0	14.8
CALM	.3	4.9													.3	4.9	
TOTAL	.6	9.3	2.8	44.7	1.2	19.7	.9	14.9	.5	8.8	.1	2.1	.0	.5	6.2	100	11.8

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1967-1973

STATION NAME: HVR HAVRE, MT

CLASS 2 / NIGHT

NO. OBS.: 506

STATION NUMBER: 94012

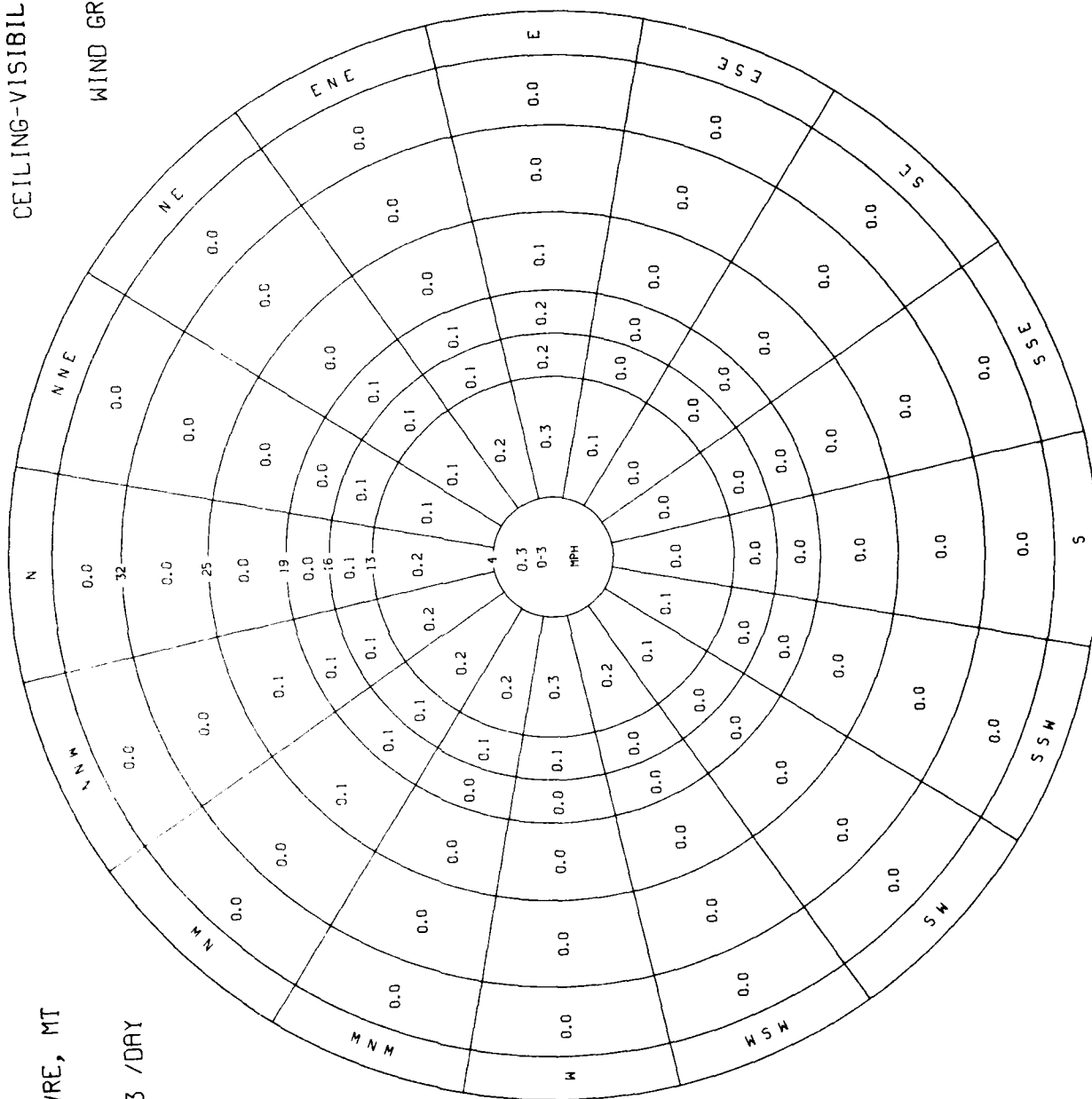
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.0	.2	3.2	.1	1.6	.0	.4	.0	.2	.0	.0	.0	.0	.0	.3	5.3	12.0
NNE	.0	.0	.1	1.8	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	2.4	8.8
NE	.0	.2	.1	2.2	.1	1.2	.0	.4	.0	.4	.0	.0	.0	.0	.0	.3	4.3	11.1
ENE	.0	.6	.4	7.1	.1	1.4	.2	3.0	.0	.8	.0	.0	.0	.0	.0	.8	12.8	11.8
E	.0	.4	.4	6.3	.2	3.4	.2	3.2	.1	1.8	.0	.6	.0	.0	.0	1.0	15.6	13.5
ESE	.0	.4	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.0	6.8
SE	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	4.7
SSE	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	5.0
S	.0	.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.4	4.7
SSW	.0	.2	.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.2	6.2
SW	.1	1.2	.2	3.6	.0	.6	.0	.2	.0	.8	.0	.2	.0	.0	.0	.4	6.5	10.2
WSW	.0	.6	.4	7.3	.0	.4	.0	.2	.0	.6	.0	.2	.0	.0	.0	.6	9.3	8.1
W	.1	1.6	.3	5.5	.1	1.2	.0	.8	.0	.8	.0	.0	.0	.2	.6	10.1	10.0	
WNW	.0	.2	.3	4.9	.1	1.2	.0	.8	.0	.8	.0	.0	.0	.0	.5	7.9	10.9	
NW	.0	.4	.2	2.6	.1	1.4	.1	1.4	.1	1.8	.0	.8	.0	.0	.5	8.3	15.0	
NNW	.0	.2	.1	2.2	.0	.8	.0	.8	.0	.4	.0	.0	.0	.0	.3	4.3	11.5	
CALM	.5	8.7													.5	8.7		
TOTAL	.9	15.4	3.0	49.4	.8	13.4	.7	11.5	.5	8.3	.1	1.8	.0	.2	6.1	100		10.2

CEILING-VISIBILITY

WIND GRAPH

HVR HAVRE, MT

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME:HVR HAVRE, MT

PERIOD: 1967-1973

CLASS 3 / DAY

STATION NUMBER: 94012

NO. OBS.: 611

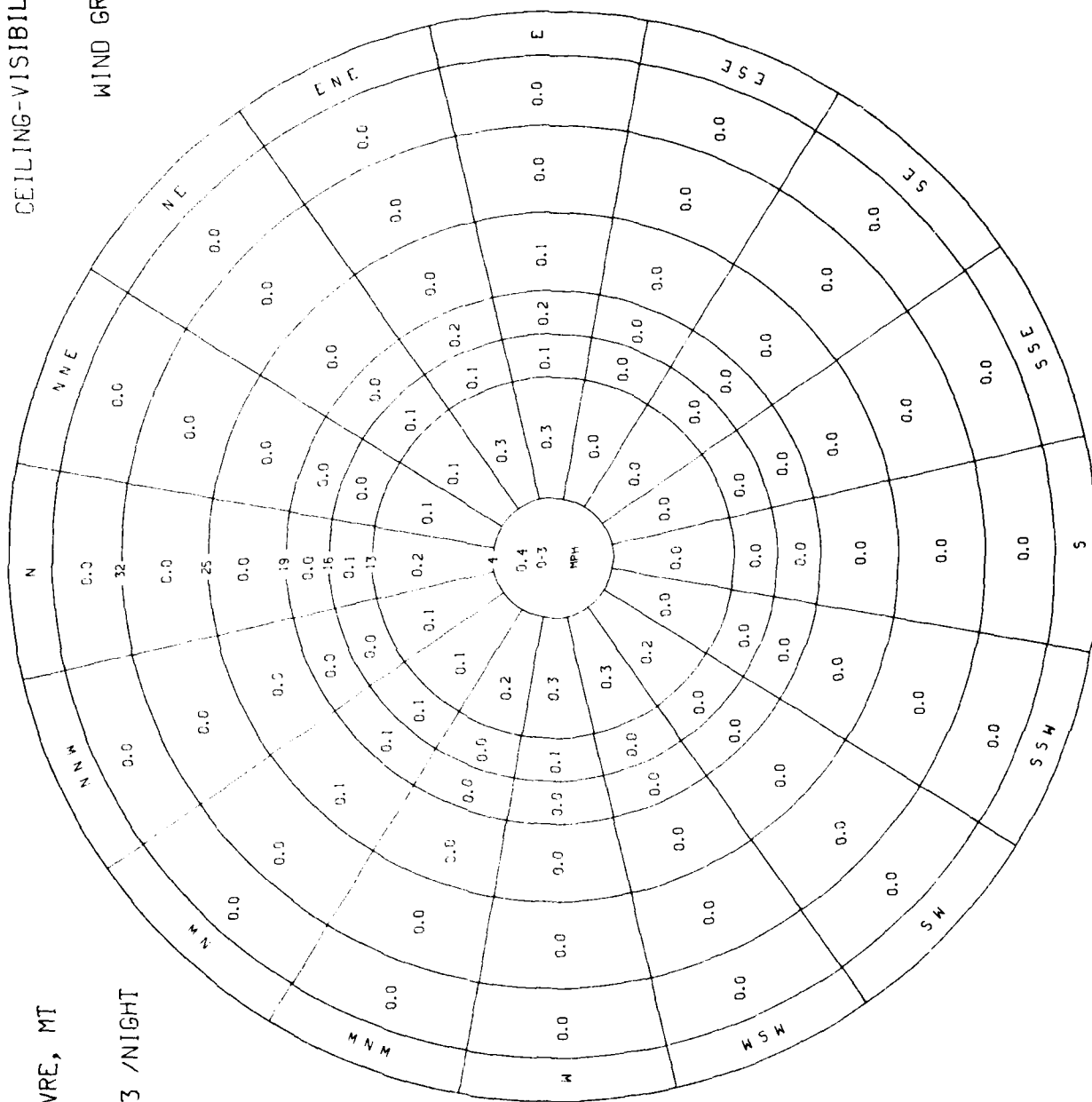
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.5	.2	4.4	.1	1.5	.0	.7	.0	.7	.0	.0	.0	.0	.4 7.7 11.1
NNE	.0	.2	.1	2.6	.1	1.5	.0	1.0	.0	.7	.0	.2	.0	.0	.3 6.1 13.3
NE	.0	.0	.1	1.8	.1	1.1	.1	1.5	.0	.5	.0	.0	.0	.0	.2 4.9 13.7
ENE	.0	.0	.2	3.6	.1	2.8	.1	1.1	.0	.3	.0	.0	.0	.0	.4 7.9 12.0
E	.0	.5	.3	6.1	.2	4.9	.2	3.6	.1	2.3	.0	.5	.0	.0	.9 17.8 13.8
ESE	.0	.0	.1	2.1	.0	.2	.0	.5	.0	.3	.0	.2	.0	.0	.2 3.3 11.7
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0 .0
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0 .0
S	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .7 4.5
SSW	.0	.3	.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 1.5 6.2
SW	.0	.2	.1	2.1	.0	.8	.0	1.0	.0	.3	.0	.0	.0	.0	.2 4.4 11.9
WSW	.0	.2	.2	3.4	.0	.2	.0	.7	.0	1.0	.0	.0	.0	.0	.3 5.4 11.4
W	.0	.5	.3	5.1	.1	1.6	.0	.5	.0	.5	.0	.0	.0	.0	.4 8.2 10.4
WNW	.0	.5	.2	4.9	.1	1.6	.0	.8	.0	.2	.0	.2	.0	.0	.4 8.2 11.3
NW	.0	.0	.2	3.3	.1	2.6	.1	2.9	.1	1.1	.0	.3	.0	.0	.5 10.3 14.6
NNW	.0	.3	.2	4.3	.1	1.8	.1	1.6	.1	1.1	.0	.8	.0	.5	.5 10.5 14.8
CALM	.2	3.3													.2 3.3
TOTAL	.3	6.7	2.3	45.2	1.0	20.6	.8	15.9	.5	9.0	.1	2.1	.0	.5	5.0 100 12.2

CEILING-VISIBILITY

WIND GRAPH

HVR HAVRE, MT

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HVR HAVRE, MT

PERIOD: 1967-1973

CLASS 3 / NIGHT

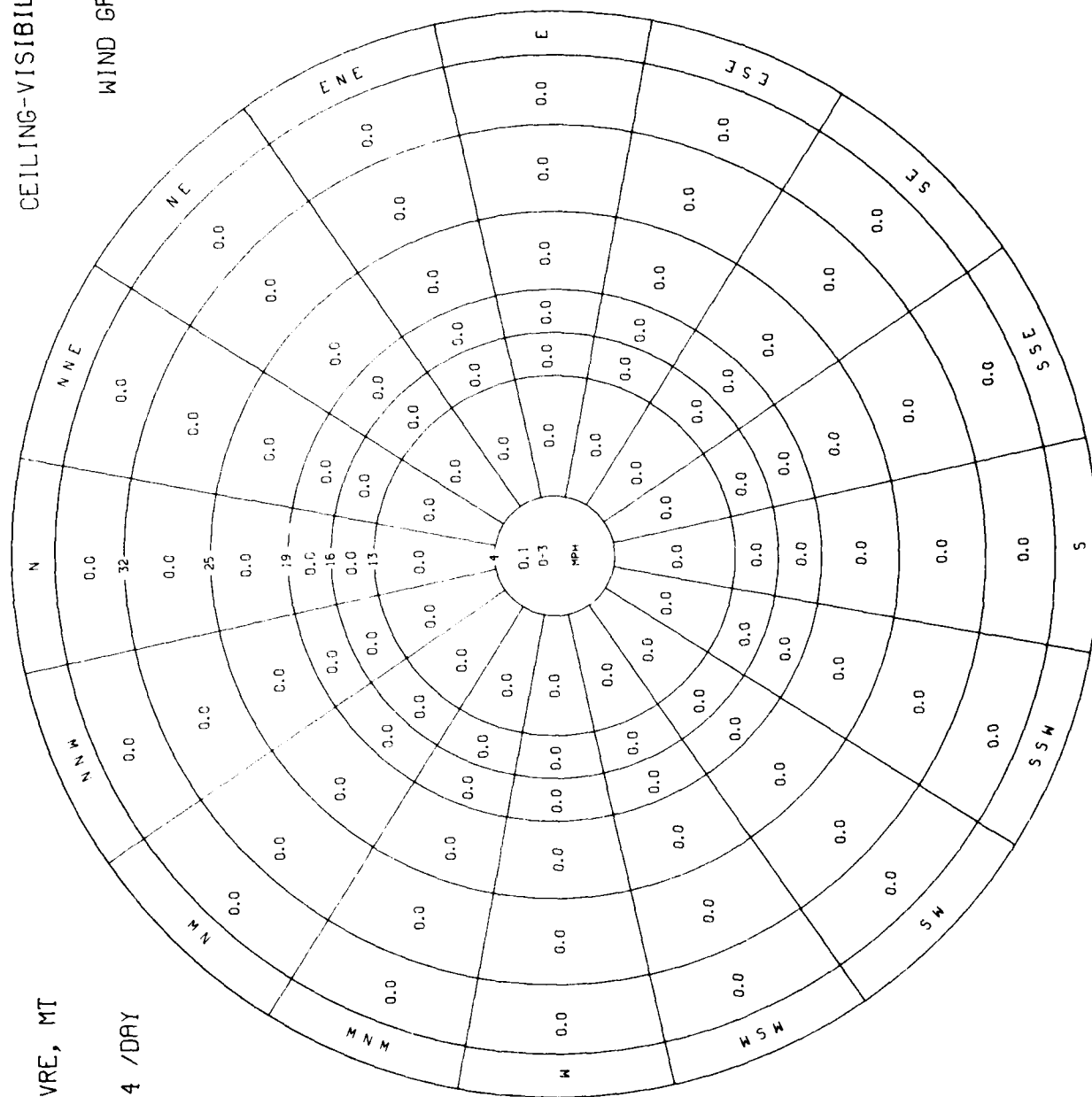
STATION NUMBER: 94012

NO. OBS.: 382

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D	
N	.0	.0	.2	3.4	.1	1.8	.0	.5	.0	.0	.0	.0	.0	.0	.0	.3	5.8	11.6
NNE	.0	.0	.1	1.8	.0	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.1	2.6	9.5
NE	.0	.0	.1	1.8	.1	1.3	.0	.5	.0	.5	.0	.0	.0	.0	.0	.2	4.2	12.7
ENE	.0	.3	.3	7.3	.1	1.8	.2	3.7	.0	.5	.0	.0	.0	.0	.0	.6	13.6	12.1
E	.0	.5	.3	6.5	.1	3.1	.2	4.2	.1	2.4	.0	.8	.0	.0	.0	.8	17.5	13.9
ESE	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	11.0
SE	.0	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	4.7
SSE	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	5.0
S	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	6.5
SSW	.0	.3	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	6.5
SW	.0	1.0	.2	3.9	.0	.5	.0	.3	.0	1.0	.0	.3	.0	.0	.0	.3	7.1	10.6
WSW	.0	.0	.3	7.1	.0	.5	.0	.3	.0	.8	.0	.3	.0	.0	.0	.4	8.9	9.3
W	.0	.3	.3	5.8	.1	1.6	.0	1.0	.0	1.0	.0	.0	.0	.0	.3	.5	9.9	11.8
WNW	.0	.3	.2	5.2	.0	.8	.0	1.0	.0	.8	.0	.0	.0	.0	.0	.4	8.1	10.9
NW	.0	.3	.1	2.6	.1	1.6	.1	1.6	.1	1.8	.0	1.0	.0	.0	.0	.4	8.9	15.8
NNW	.0	.3	.1	2.6	.0	1.0	.0	.8	.0	.5	.0	.0	.0	.0	.0	.2	5.2	11.5
CALM	.2	5.0														.2	5.0	
TOTAL	.4	8.4	2.3	50.5	.7	14.7	.7	14.4	.4	9.4	.1	2.4	.0	.3	.4	6	100	11.4

CEILING-VISIBILITY

WIND GRAPH



HVR HAVRE, MT

CLASS 4 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HVR HAVRE, MT

PERIOD: 1967-1973

CLASS 4 / DAY

STATION NUMBER: 94012

NO. OBS.: 84

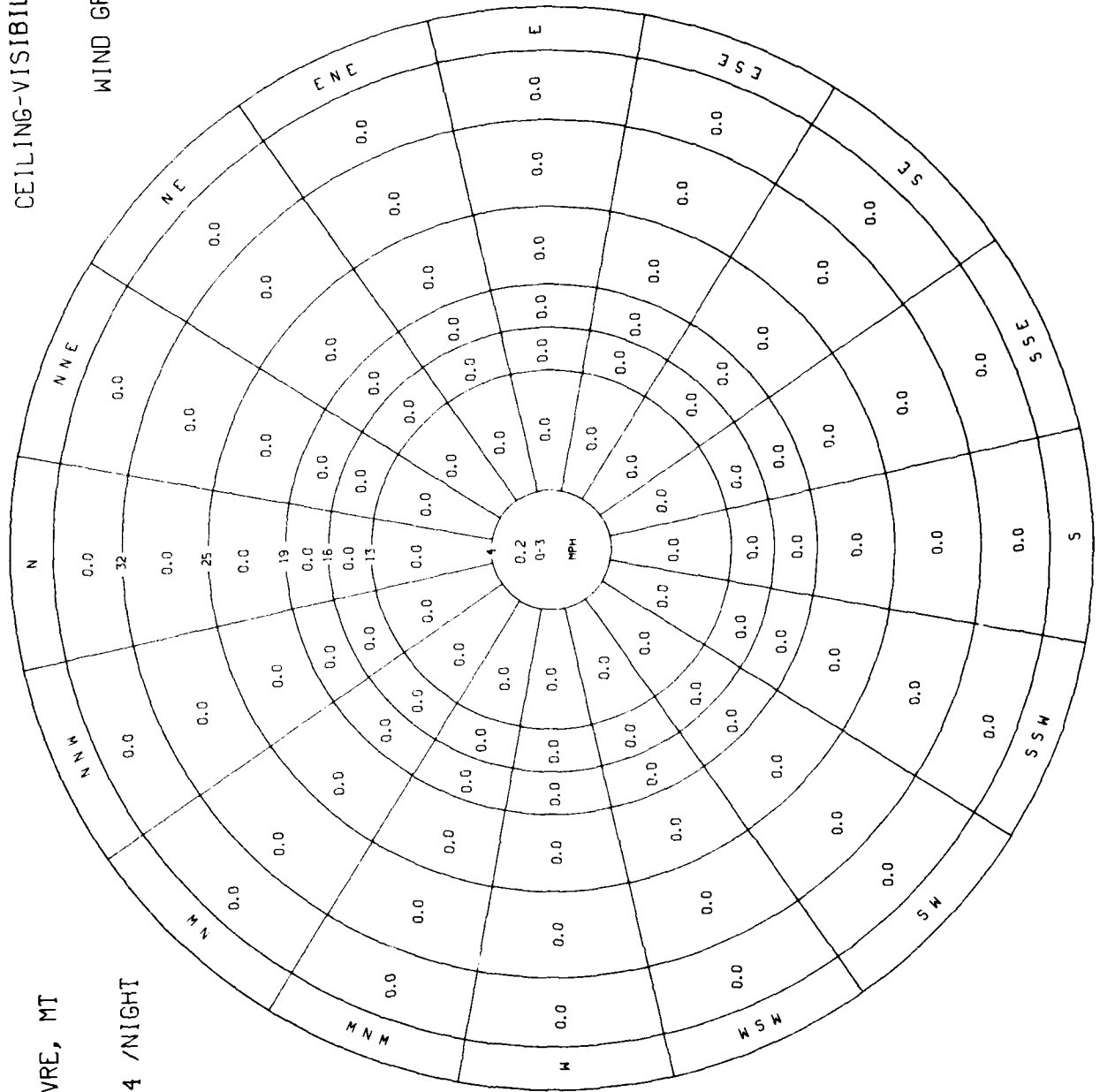
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.0	2.4	.0	1.2	.0	2.4	.0	2.4	.0	.0	.0	.0	.1	8.3	15.3
NNE	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	8.5
NE	.0	1.2	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	6.4
ENE	.0	.0	.0	6.0	.0	.0	.0	7.1	.0	2.4	.0	.0	.0	.0	.1	15.5	14.4
E	.0	1.2	.0	6.0	.0	4.8	.0	4.8	.0	3.6	.0	2.4	.0	.0	.2	22.6	15.1
ESE	.0	1.2	.0	2.4	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	4.8	9.7
SE	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	5.0
SSE	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	5.0
S	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	4.0
SSW	.0	1.2	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	7.0
SW	.0	.0	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	9.5
WSW	.0	1.2	.0	3.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	7.8
W	.0	2.4	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	5.5
WNW	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	12.0
NW	.0	.0	.0	2.4	.0	3.6	.0	1.2	.0	1.2	.0	.0	.0	.0	.1	8.3	13.3
NNW	.0	.0	.0	.0	.0	3.6	.0	.0	.0	1.2	.0	.0	.0	.0	.0	4.8	15.7
CALM	.0	3.6													.0	3.6	
TOTAL	.1	14.3	.3	38.1	.1	17.9	.1	15.5	.1	11.9	.0	2.4	.0	.0	.7	100	11.4

CEILING-VISIBILITY

WIND GRAPH

HVR HAVRE, MT

CLASS 4 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HVR HAVRE, MT

PERIOD: 1967-1973

CLASS 4 / NIGHT

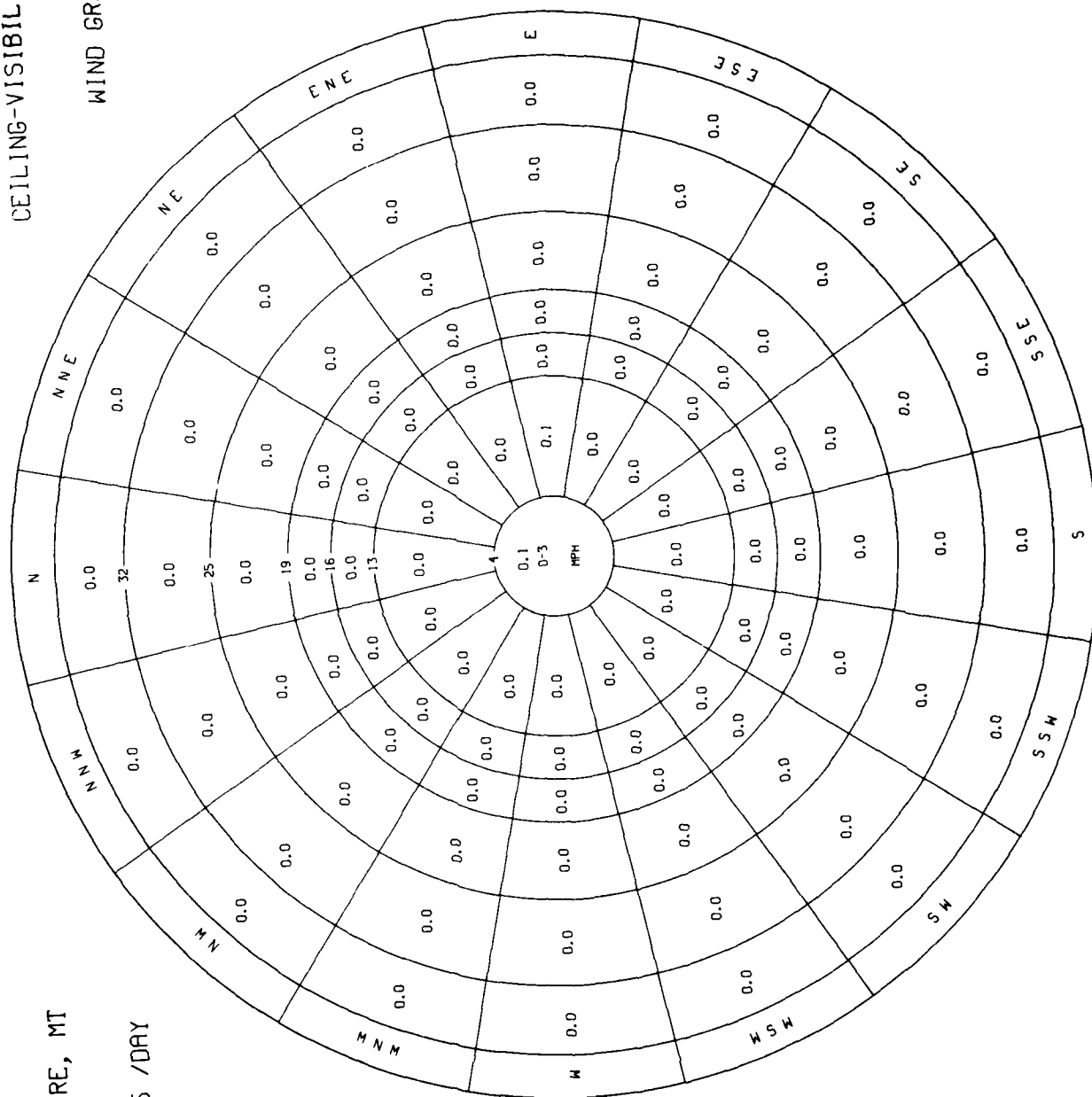
STATION NUMBER: 94012

NO. OBS.: 61

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	4.9	.0	1.6	.0	.0	.0	1.6	.0	.0	.0	.0	.1	8.2	13.8
NNE	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	5.0
NE	.0	1.6	.0	4.9	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.2	7.0
ENE	.0	.0	.0	4.9	.0	.0	.0	1.6	.0	3.3	.0	.0	.0	.0	.1	9.8	14.3
E	.0	.0	.0	4.9	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.8	11.2
ESE	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	6.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	3.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	1.6	.0	4.9	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.2	9.4
WSW	.0	3.3	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.2	5.0
W	.0	4.9	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.8	5.2
WNW	.0	.0	.0	3.3	.0	4.9	.0	.0	.0	1.6	.0	.0	.0	.0	.1	9.8	13.0
NW	.0	1.6	.0	.0	.0	1.6	.0	1.6	.0	3.3	.0	.0	.0	.0	.1	8.2	15.0
NNW	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	1.6	18.0
CALM	.1	11.5													.1	11.5	
TOTAL	.2	26.2	.3	42.6	.1	16.4	.0	4.9	.1	9.8	.0	.0	.0	.0	.7	100	9.0

CEILING-VISIBILITY

WIND GRAPH



HVR HAVRE, MT

CLASS 5 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HVR HAVRE, MT

PERIOD: 1967-1973

CLASS 5 / DAY

STATION NUMBER: 94012

NO. OBS.: 43

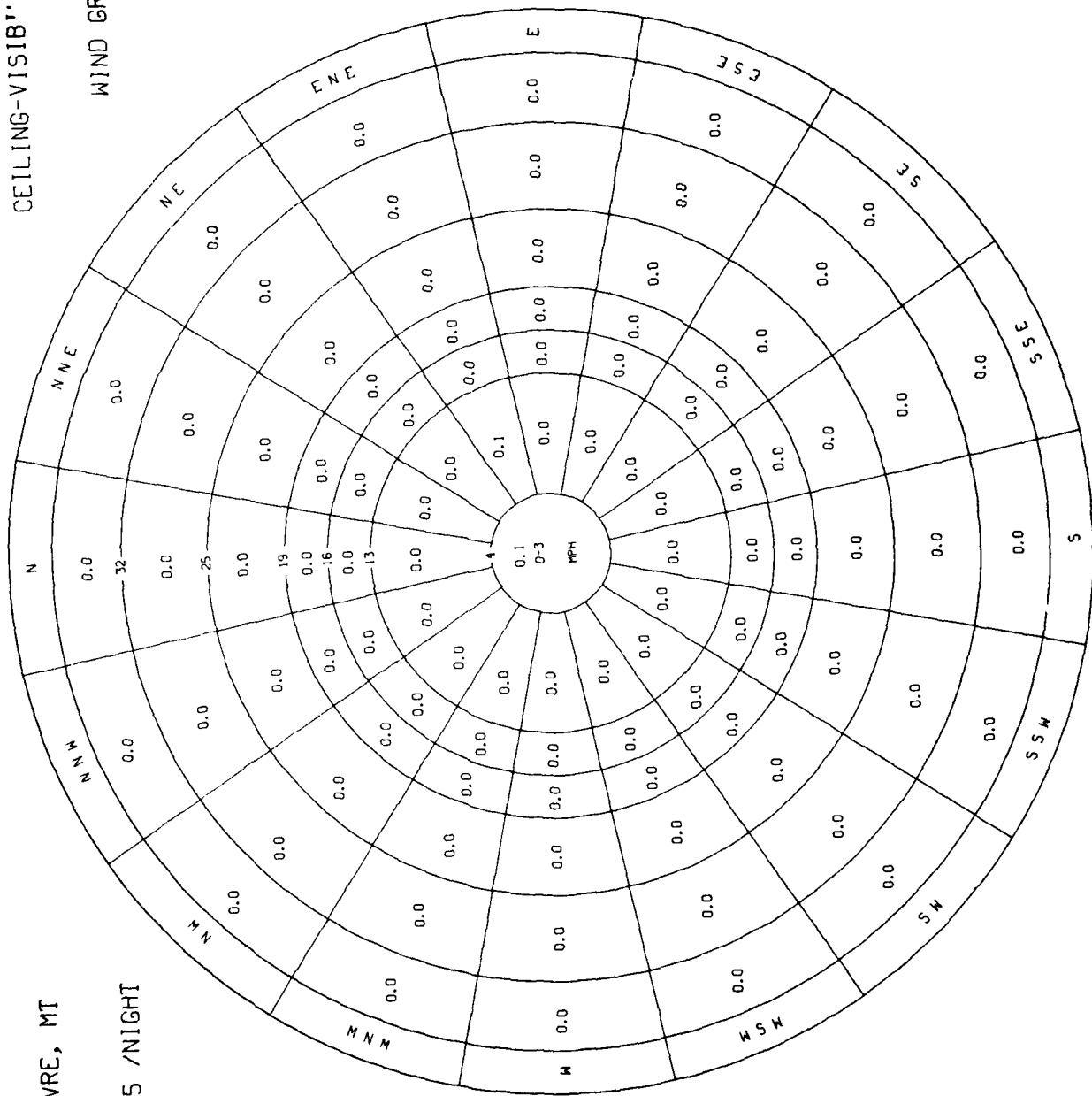
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	2.3	32.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	2.3	25.0
NE	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	2.3	5.0
ENE	.0	.0	.0	4.7	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	9.3	.0	9.3	12.5
E	.0	2.3	.1	16.3	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	1	20.9	.0	8.6
ESE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	2.3	5.0
SW	.0	.0	.0	2.3	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	4.7	.0	4.7	10.0
WSW	.0	.0	.0	9.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.3	.0	9.3	7.5
W	.0	.0	.0	7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	.0	7.0	5.3
WNW	.0	.0	.0	.0	.0	2.3	.0	2.3	.0	.0	.0	.0	.0	.0	4.7	.0	4.7	16.0
NW	.0	.0	.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	4.7	.0	4.7	14.5
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	25.6													.1	25.6		
TOTAL	.1	32.6	.2	44.2	.0	11.6	.0	4.7	.0	2.3	.0	2.3	.0	2.3	.4	100		7.6

CEILING-VISIBILITY

WIND GRAPH

HVR HAVRE, MT

CLASS 5 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HVR HAVRE, MT

PERIOD: 1967-1973

CLASS 5 / NIGHT

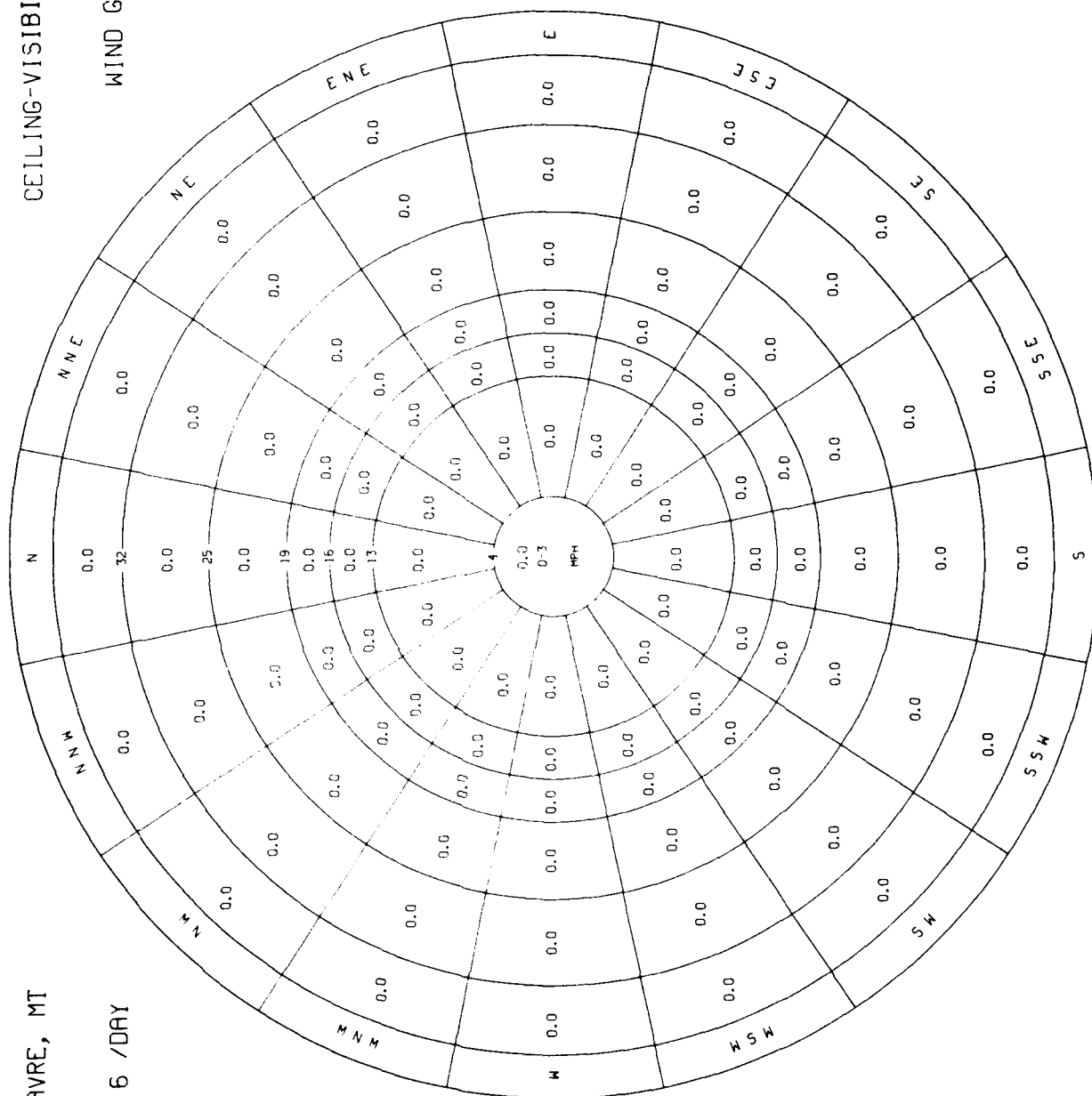
STATION NUMBER: 94012

NO. OBS.: 33

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	3.0	.1	15.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7
E	.0	.0	.0	9.1	.0	6.1	.0	.0	.0	.0	.0	.0	.0	.0	11.8
ESE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	3.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0
WSW	.0	.0	.0	12.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2
W	.0	6.1	.0	6.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5
WNW	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0
NW	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	21.2													.1 21.2
TOTAL	.1	36.4	.2	57.6	.0	6.1	.0	.0	.0	.0	.0	.0	.0	.0	5.5

CEILING-VISIBILITY

WIND GRAPH



HVR HAVRE, MT

CLASS 6 /DAY

ANNUAL

PERIOD: 1967-1973

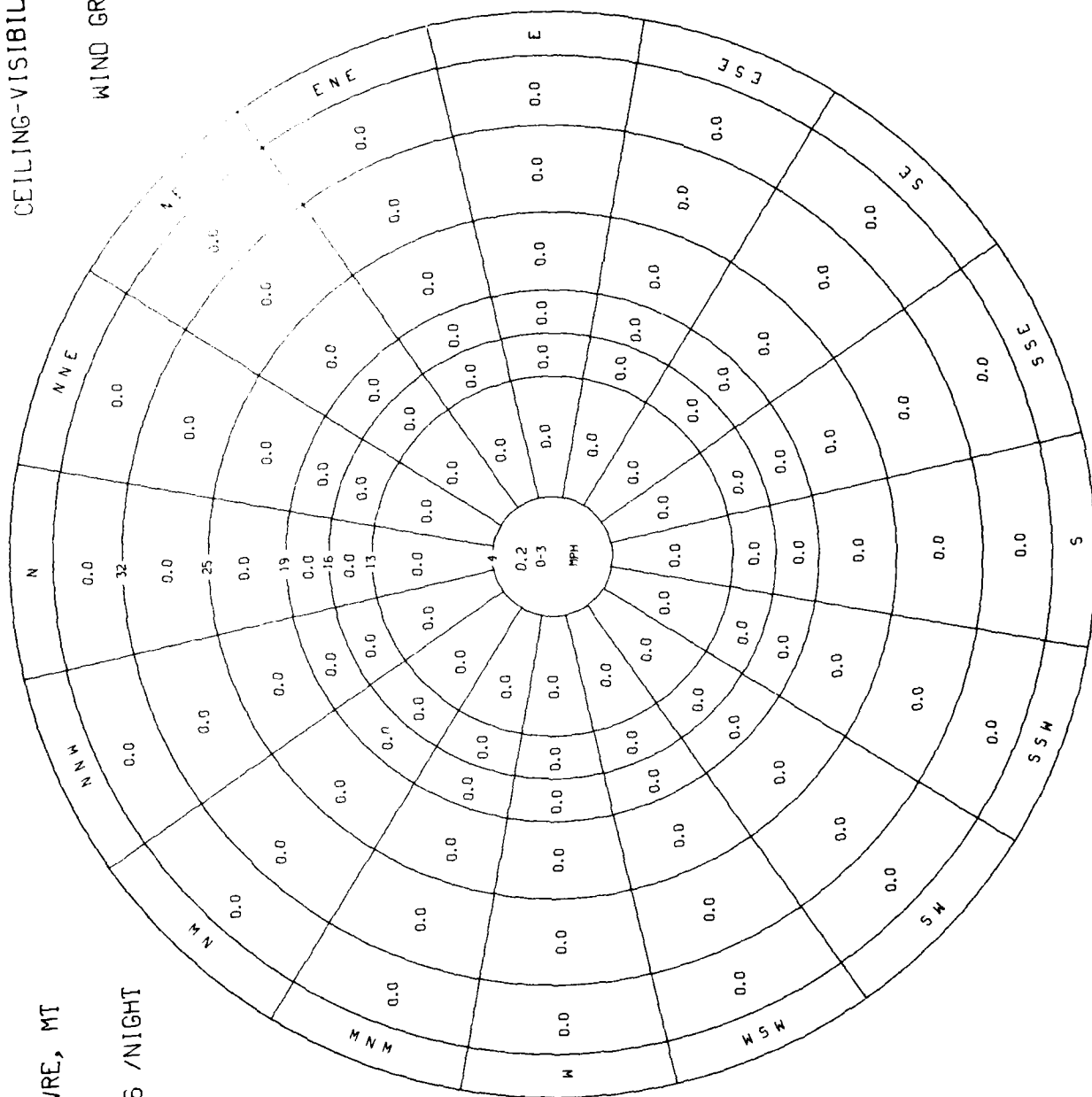
CLASS 6 / DAY

NO.	OBS.:	14
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94	94	94
95	95	95
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97	97	97
98	98	98
99	99	99
100	100	100

[illegible]

CEILING-VISIBILITY

WIND GRAPH



HVR HAVRE, MT

CLASS 6 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HVR HAVRE, MT

PERIOD: 1967-1973

CLASS 6 / NIGHT

STATION NUMBER: 94012

NO. OBS.: 30

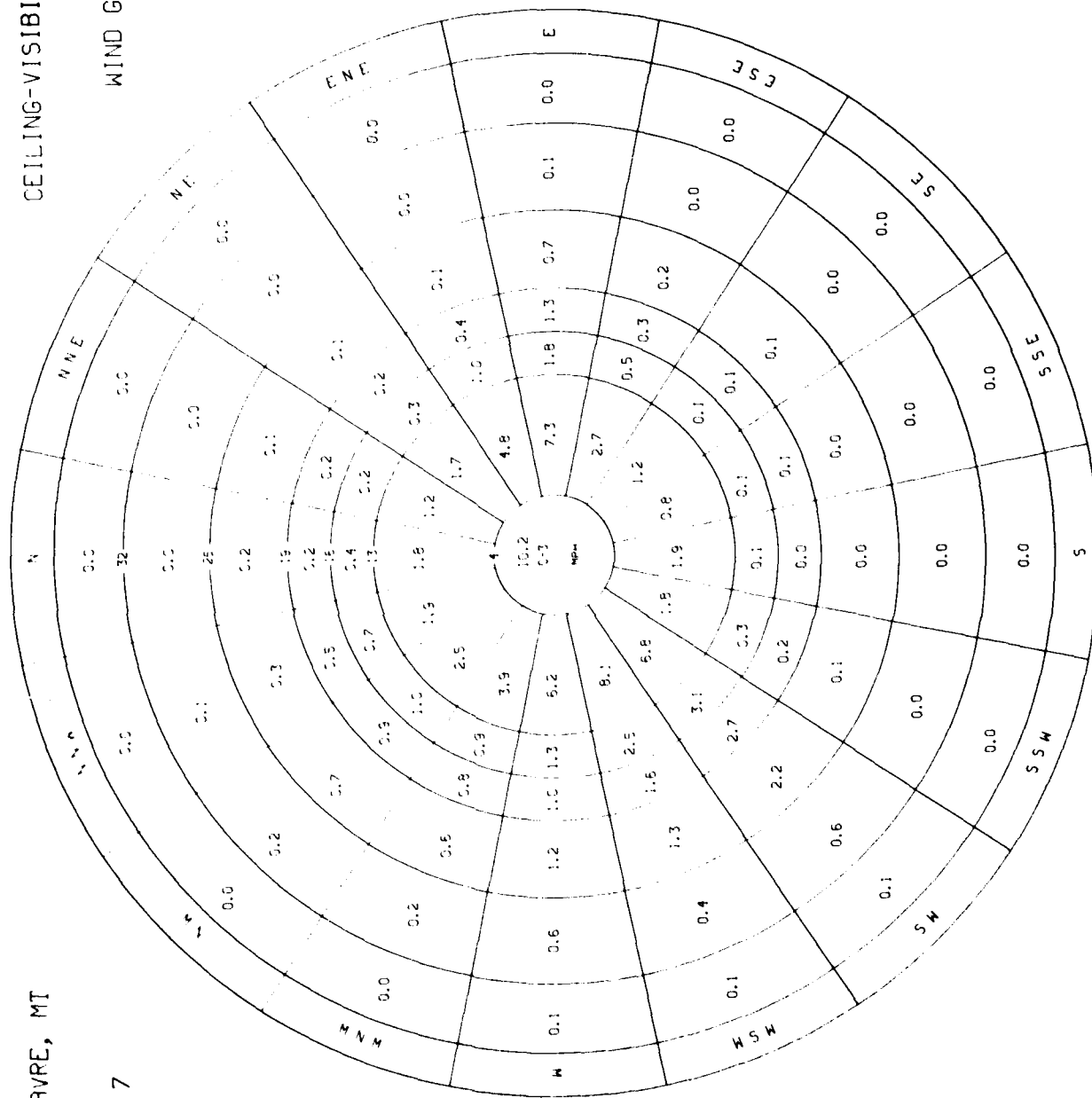
O I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	6.0
ENE	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	3.0
E	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	12.0
ESE	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	3.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	3.3	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	4.5
SSW	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	5.5
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	3.3	.0	10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.3	4.7
W	.0	6.7	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	4.0
WNW	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	6.5
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NNW	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	5.0
CALM	.1	36.7													.1	36.7	
TOTAL	2	60.0	1	40.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	100

CEILING-VISIBILITY

WIND GRAPH

HVR HAVRE, MT

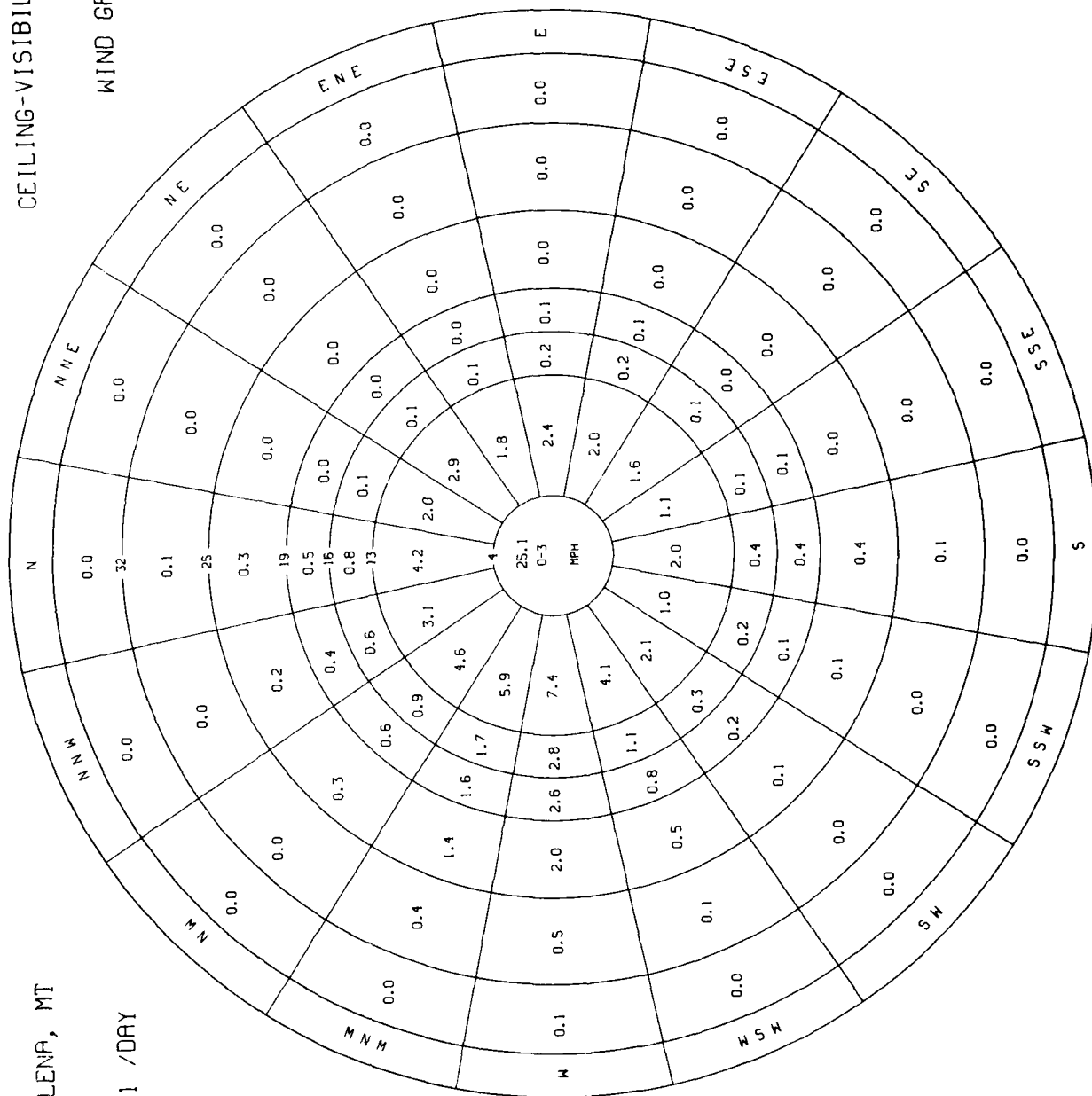
CLASS 7



CEILING-VISIBILITY WIND GRAPH

HLN HELENA, MT

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HLN HELENA, MT

PERIOD: 1948-1978

CLASS 1 / DAY

STATION NUMBER: 24144

NO. OBS.: 51614

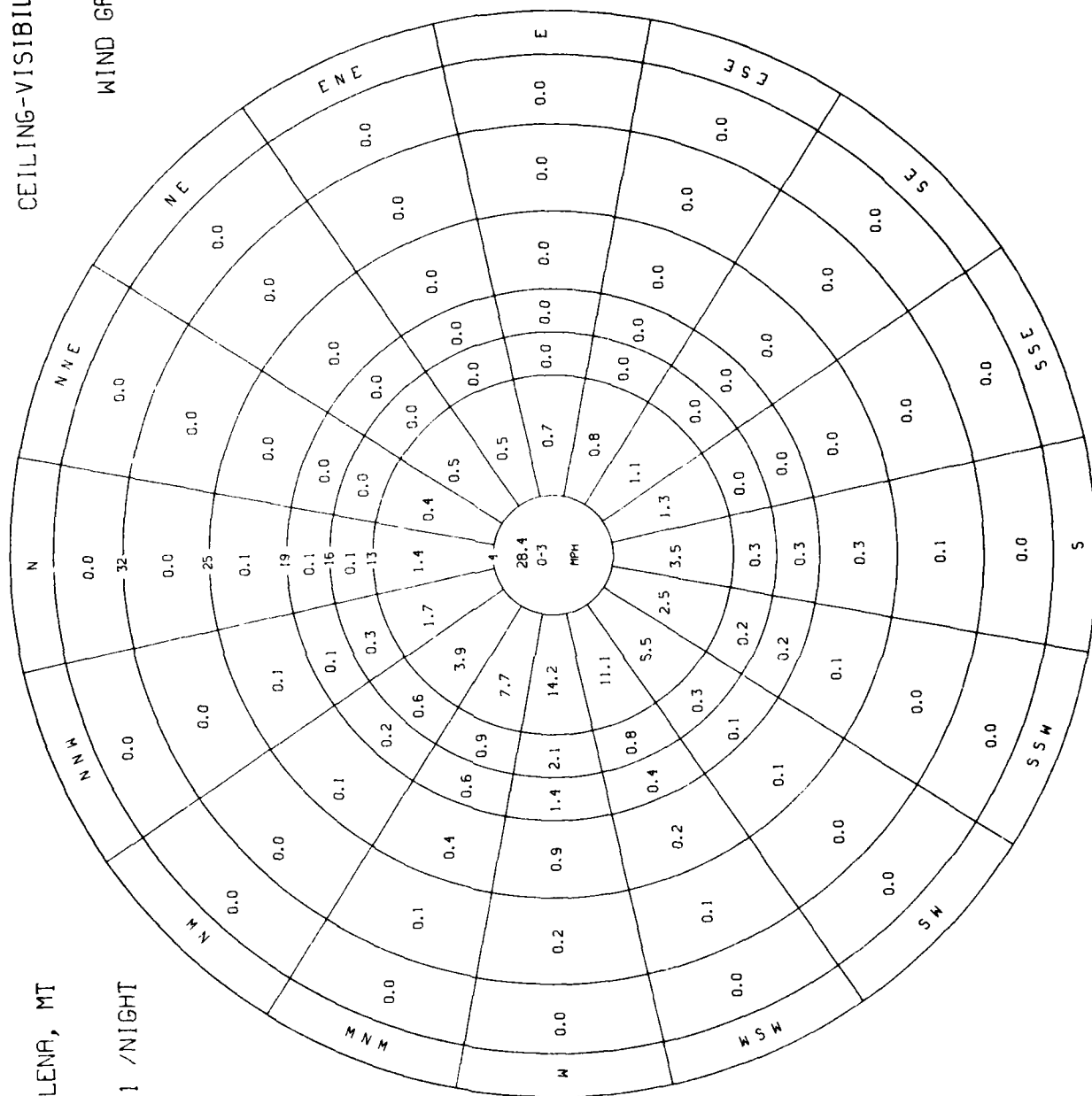
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	2.2	2.2	4.2	4.4	.8	.8	.5	.5	.3	.4	.1	.1	.0	.0	8.1	8.3	8.1
NNE	1.1	1.2	2.0	2.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	3.3	3.4	6.0
NE	1.7	1.8	2.9	3.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	4.8	4.9	5.5
ENE	.9	1.0	1.8	1.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.8	2.9	5.6
E	1.0	1.0	2.4	2.4	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.7	3.8	6.7
ESE	.8	.8	2.0	2.0	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.1	3.1	7.1
SE	.8	.8	1.6	1.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.5	2.6	6.2
SSE	.6	.6	1.1	1.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	1.9	2.0	6.9
S	1.1	1.1	2.0	2.0	.4	.4	.4	.4	.4	.4	.1	.1	.0	.0	4.3	4.5	9.3
SSW	.6	.6	1.0	1.1	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	2.1	2.2	8.2
SW	.9	.9	2.1	2.2	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	3.6	3.7	7.5
WSW	1.2	1.3	4.1	4.2	1.1	1.1	.8	.8	.5	.5	.1	.1	.0	.0	7.8	8.0	10.0
W	1.4	1.5	7.4	7.5	2.8	2.8	2.6	2.7	2.0	2.1	.5	.5	.1	.1	16.7	17.2	12.3
WNW	1.4	1.5	5.9	6.1	1.7	1.8	1.6	1.6	1.4	1.5	.4	.4	.0	.0	12.6	12.9	11.5
NW	1.8	1.8	4.6	4.7	.9	.9	.6	.6	.3	.3	.0	.1	.0	.0	8.2	8.4	8.6
NNW	1.2	1.2	3.1	3.2	.6	.6	.4	.4	.2	.2	.0	.0	.0	.0	5.7	5.8	8.6
CALM	6.2	6.4													6.2	6.4	
TOTAL	25.1	25.7	48.2	49.4	9.6	9.9	7.5	7.7	5.6	5.8	1.3	1.4	.2	.2	97.5	100	8.6

CEILING-VISIBILITY

WIND GRAPH

HLN HELENA, MT

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: HLN HELENA, MT

CLASS 1 / NIGHT

NO. OBS.: 36620

STATION NUMBER: 24144

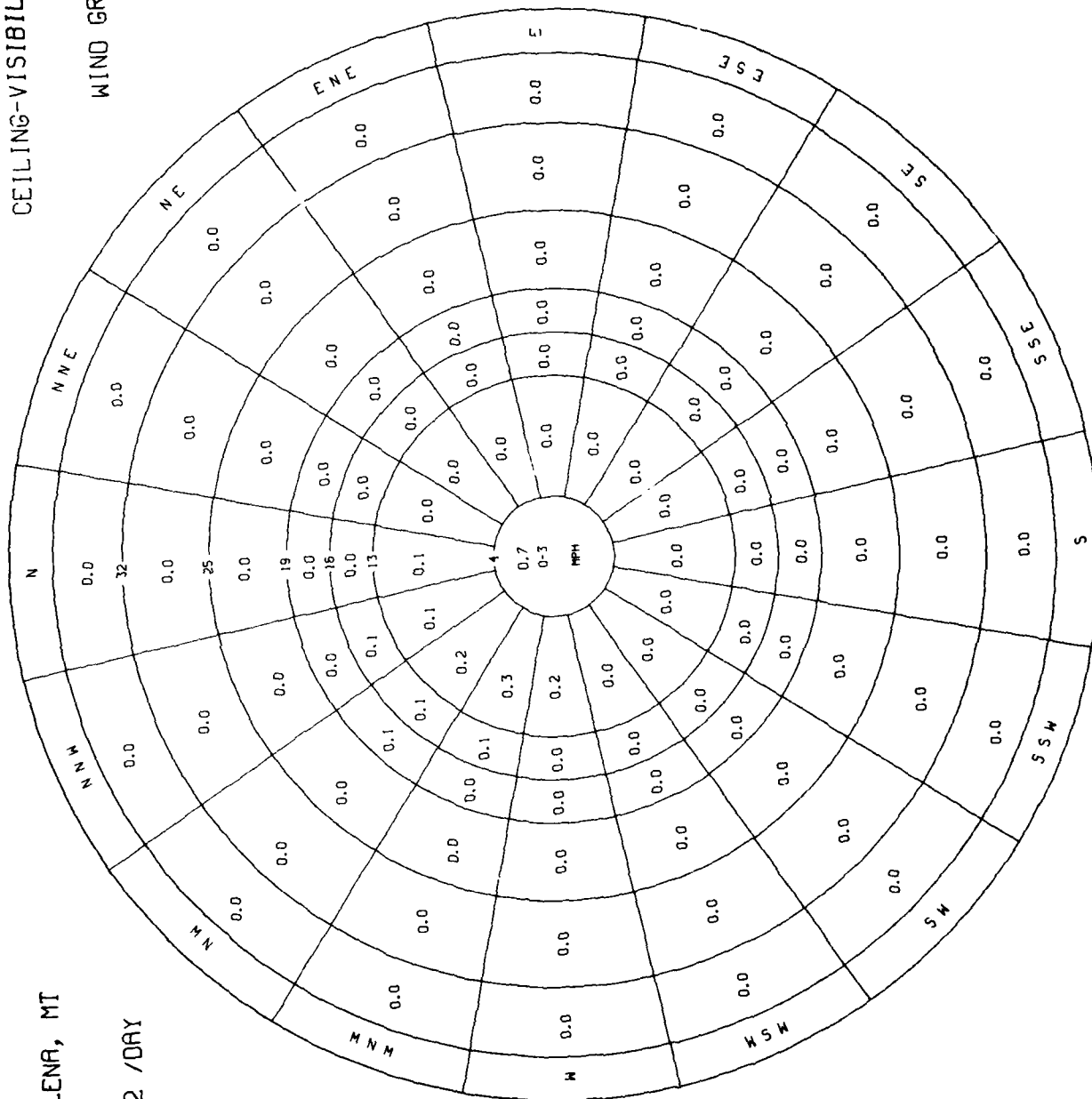
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	1.0	1.0	1.4	1.4	.1	.2	.1	.2	.1	.1	.0	.0	.0	.0	2.7	2.8	6.8
NNE	.5	.5	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.9	4.4
NE	.6	.6	.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.2	4.4
ENE	.5	.5	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.0	4.4
E	.5	.5	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.2	5.0
ESE	.6	.6	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.4	5.0
SE	1.0	1.0	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	2.2	4.8
SSE	.8	.8	1.3	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	2.3	5.5
S	2.2	2.2	3.5	3.6	.3	.3	.3	.3	.3	.3	.1	.2	.0	.0	6.6	6.8	7.2
SSW	1.3	1.3	2.5	2.6	.2	.2	.2	.2	.1	.1	.0	.0	.0	.0	4.2	4.3	6.5
SW	2.4	2.5	5.5	5.6	.3	.3	.1	.1	.1	.1	.0	.0	.0	.0	8.4	8.6	6.2
WSW	2.8	2.8	11.1	11.4	.8	.9	.4	.5	.2	.2	.1	.1	.0	.0	15.5	15.9	7.5
W	2.8	2.9	14.2	14.6	2.1	2.2	1.4	1.5	.9	.9	.2	.2	.0	.0	21.7	22.4	9.2
WNW	1.7	1.7	7.7	7.9	.9	1.0	.6	.6	.4	.4	.1	.1	.0	.0	11.3	11.7	8.5
NW	1.5	1.5	3.9	4.1	.6	.6	.2	.2	.1	.1	.0	.0	.0	.0	6.3	6.5	7.4
NNW	.7	.7	1.7	1.7	.3	.3	.1	.2	.1	.1	.0	.0	.0	.0	2.9	3.0	7.8
CALM	7.7	7.9													7.7	7.9	
TOTAL	28.4	29.2	56.7	58.3	5.8	6.0	3.5	3.6	2.2	2.3	.6	.6	.1	.1	97.2	100	6.9

CEILING-VISIBILITY

WIND GRAPH

HLN HELENA, MT

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HLN HELENA, MT

PERIOD: 1948-1978

CLASS 2 / DAY

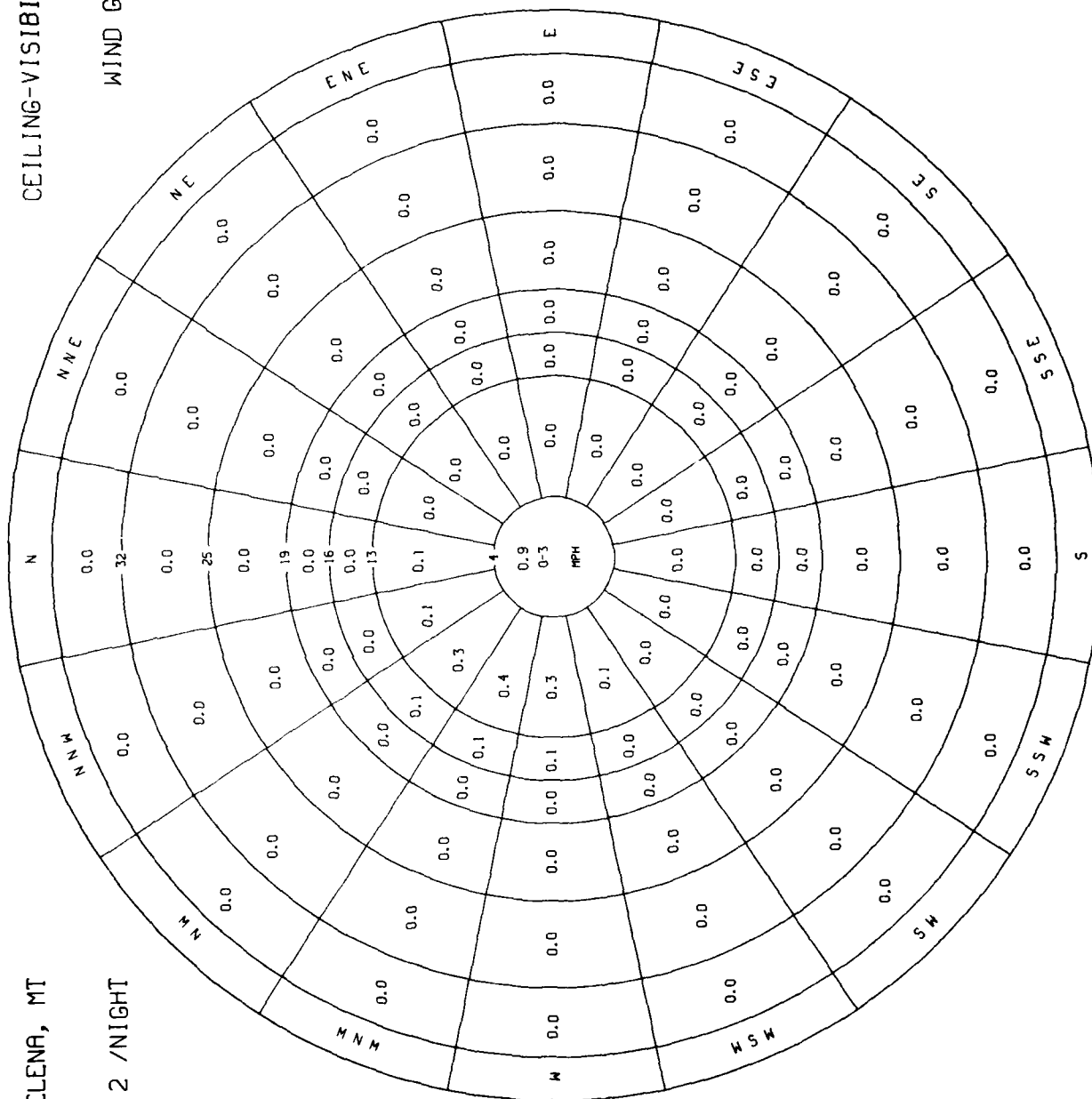
STATION NUMBER: 24144

NO. OBS.: 1300

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.1	2.5	.1	4.3	.0	1.2	.0	1.2	.0	.2	.0	.0	.0	.1	.2	9.5	8.8
NNE	.0	.7	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	4.0
NE	.0	1.7	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.3	3.3
ENE	.0	.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	3.3
E	.0	.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	4.0
ESE	.0	.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	4.0
SE	.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	3.3
SSE	.0	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	2.5
S	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	3.4
SSW	.0	.4	.0	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.7	5.2
SW	.0	.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	4.6
WSW	.0	.8	.0	1.5	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1	2.6	6.5
W	.0	1.0	.2	9.3	.0	.8	.0	.6	.0	.7	.0	.1	.0	.0	.3	12.5	9.2
WNW	.0	1.7	.3	13.3	.1	2.8	.0	1.3	.0	.2	.0	.1	.0	.0	.5	19.4	9.6
NW	.0	1.8	.2	9.6	.1	4.0	.1	2.4	.0	.9	.0	.0	.0	.1	.5	18.8	11.0
NNW	.1	2.4	.1	5.8	.1	2.6	.0	1.7	.0	.7	.0	.3	.0	.1	.3	13.6	10.6
CALM	.3	11.9													.3	11.9	
TOTAL	.7	29.6	1.2	48.0	.3	11.5	.2	7.5	.1	2.7	.0	.5	.0	.2	2.5	100	7.9

CEILING-VISIBILITY

WIND GRAPH



HLN HELENA, MT

CLASS 2 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HLN HELENA, MT

PERIOD: 1948-1978

CLASS 2 / NIGHT

STATION NUMBER: 24144

NO. OBS.: 1041

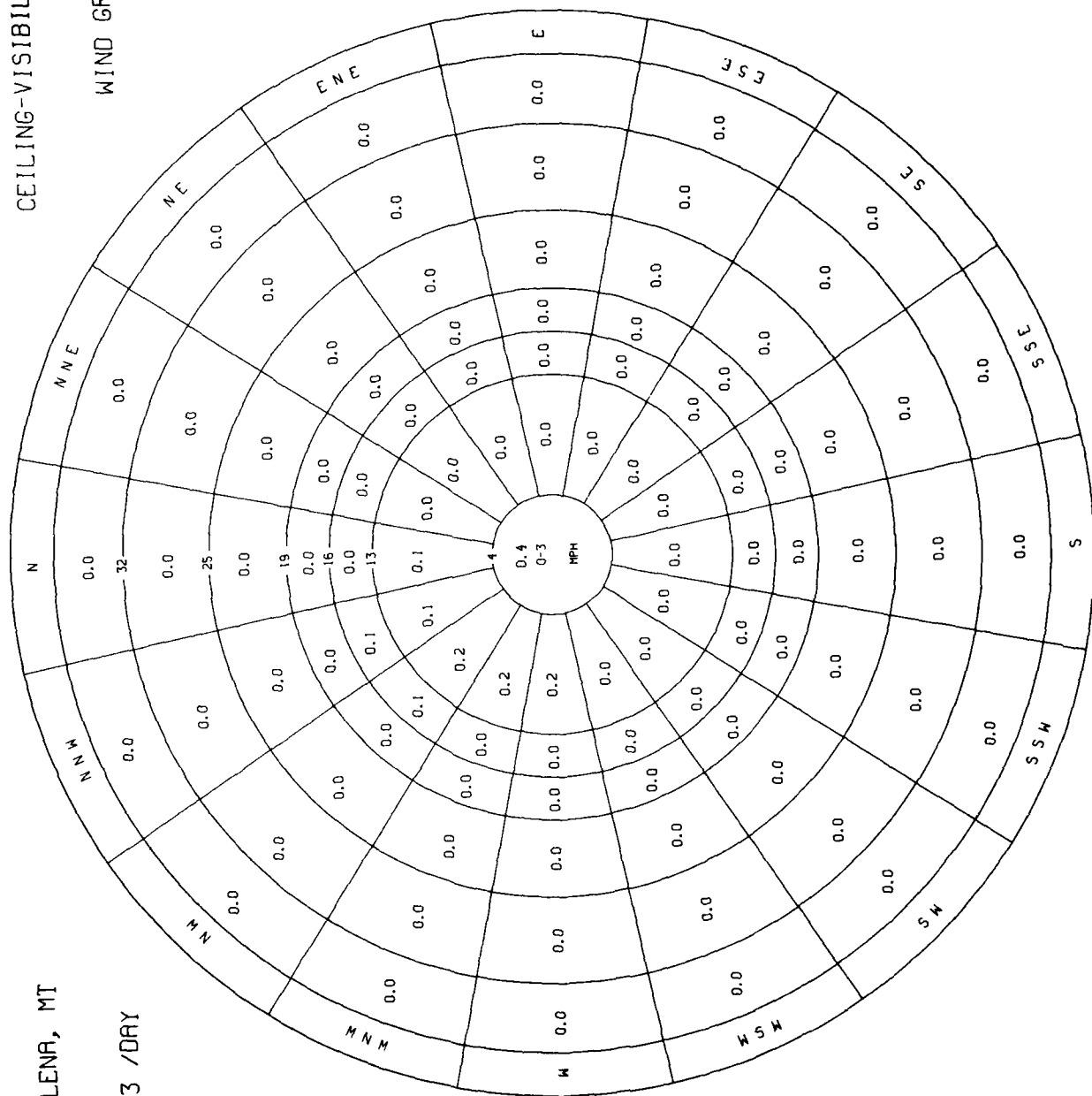
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.1	2.0	.1	2.7	.0	1.2	.0	1.0	.0	.4	.0	.2	.0	.0	.2	7.5	9.9
NNE	.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	2.8
NE	.0	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	3.3
ENE	.0	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	3.3
E	.0	.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	3.2
ESE	.0	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	4.4
SE	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	2.2
SSE	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	3.3
S	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.1
SSW	.0	.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	4.0
SW	.0	.9	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	4.1
WSW	.1	1.8	.1	3.2	.0	.3	.0	.1	.0	.2	.0	.0	.0	.0	.2	5.6	6.1
W	.0	1.5	.3	11.7	.1	2.2	.0	.2	.0	.1	.0	.3	.0	.0	.4	16.0	8.9
WNW	.1	1.8	.4	13.6	.1	3.5	.0	1.2	.0	.3	.0	.1	.0	.0	.6	20.6	9.8
NW	.1	3.2	.3	10.2	.1	3.2	.0	1.6	.0	1.1	.0	.1	.0	.0	.5	19.3	10.0
NNW	.0	1.5	.1	3.5	.0	1.3	.0	1.2	.0	.3	.0	.1	.0	.0	.2	8.0	10.3
CALM	.4	13.3													.4	13.3	
TOTAL	.9	31.1	1.3	48.7	.3	11.7	.1	5.4	.1	2.3	.0	.8	.0	.0	2.8	100	7.6

CEILING-VISIBILITY

WIND GRAPH

HLN HELENA, MT

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HLN HELENA, MT

PERIOD: 1948-1978

CLASS 3 / DAY

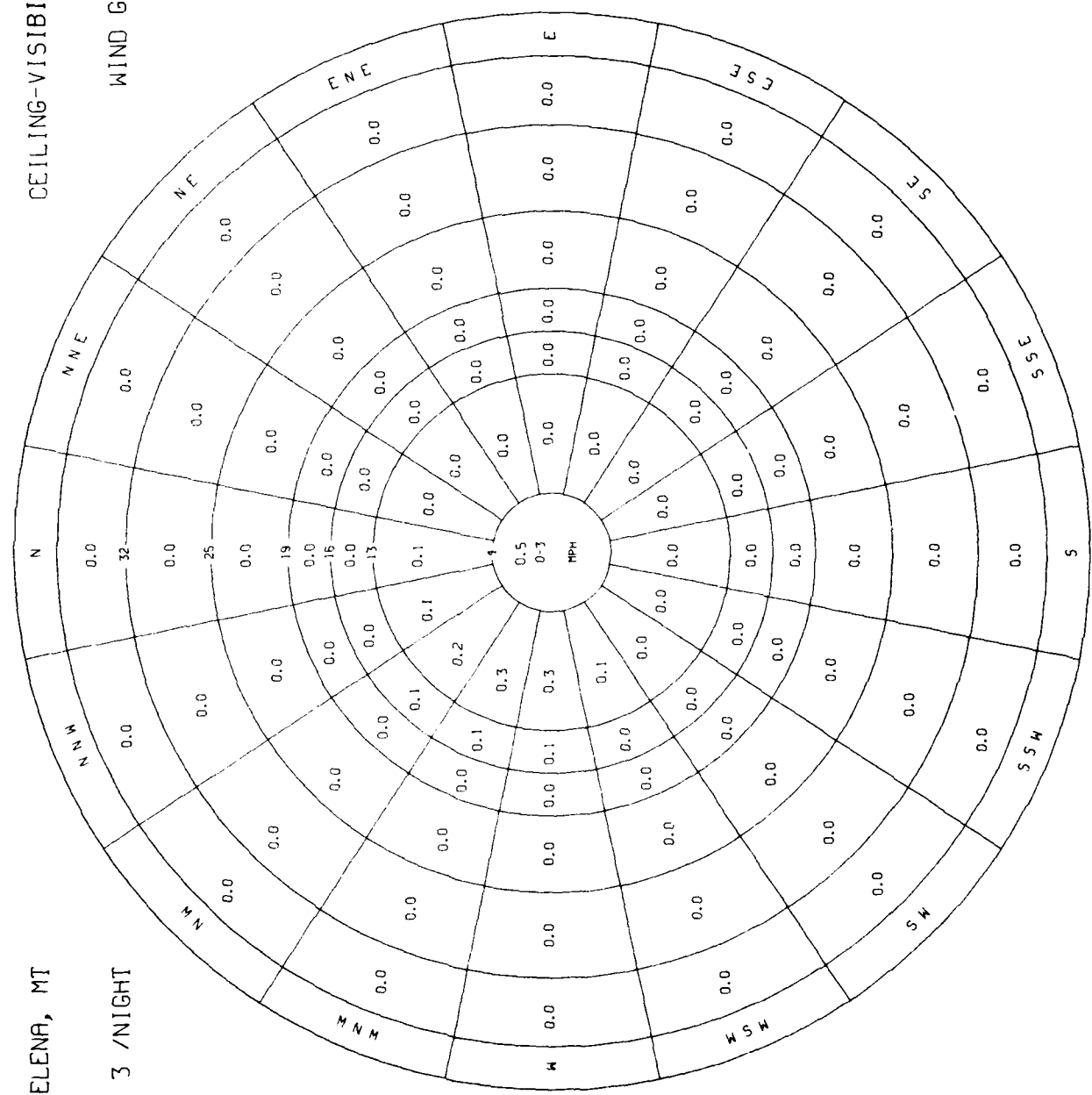
STATION NUMBER: 24144

NO. OBS.: 936

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	2.2	.1	4.7	.0	1.3	.0	1.6	.0	.1	.0	.0	.0	.0	.2 9.9
NNE	.0	.6	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.4
NE	.0	1.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.5
ENE	.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.0
E	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .9
ESE	.0	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.0
SE	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .7
SSE	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .4
S	.0	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .9
SSW	.0	.4	.0	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0 .7
SW	.0	.6	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.4
WSW	.0	.5	.0	1.7	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0 2.6
W	.0	.7	.2	10.0	.0	.7	.0	.7	.0	.7	.0	.0	.0	.0	.2 13.0
WNW	.0	1.6	.2	13.6	.0	2.8	.0	1.2	.0	.0	.0	.0	.0	.0	.3 19.1
NW	.0	1.4	.2	10.5	.1	4.2	.0	2.5	.0	.7	.0	.0	.0	.0	.3 19.3
NNW	.0	2.4	.1	7.2	.1	3.1	.0	1.7	.0	.6	.0	.2	.0	.0	.3 15.2
CALM	.2	10.0													.2 10.0
TOTAL	.4	25.2	.9	52.0	.2	12.1	.1	8.0	.0	2.2	.0	.3	.0	.1	1.8 100

CEILING-VISIBILITY WIND GRAPH

HLN HELENA, MT
CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HILL HELENA, MT

PERIOD: 1948-1978

CLASS 3 / NIGHT

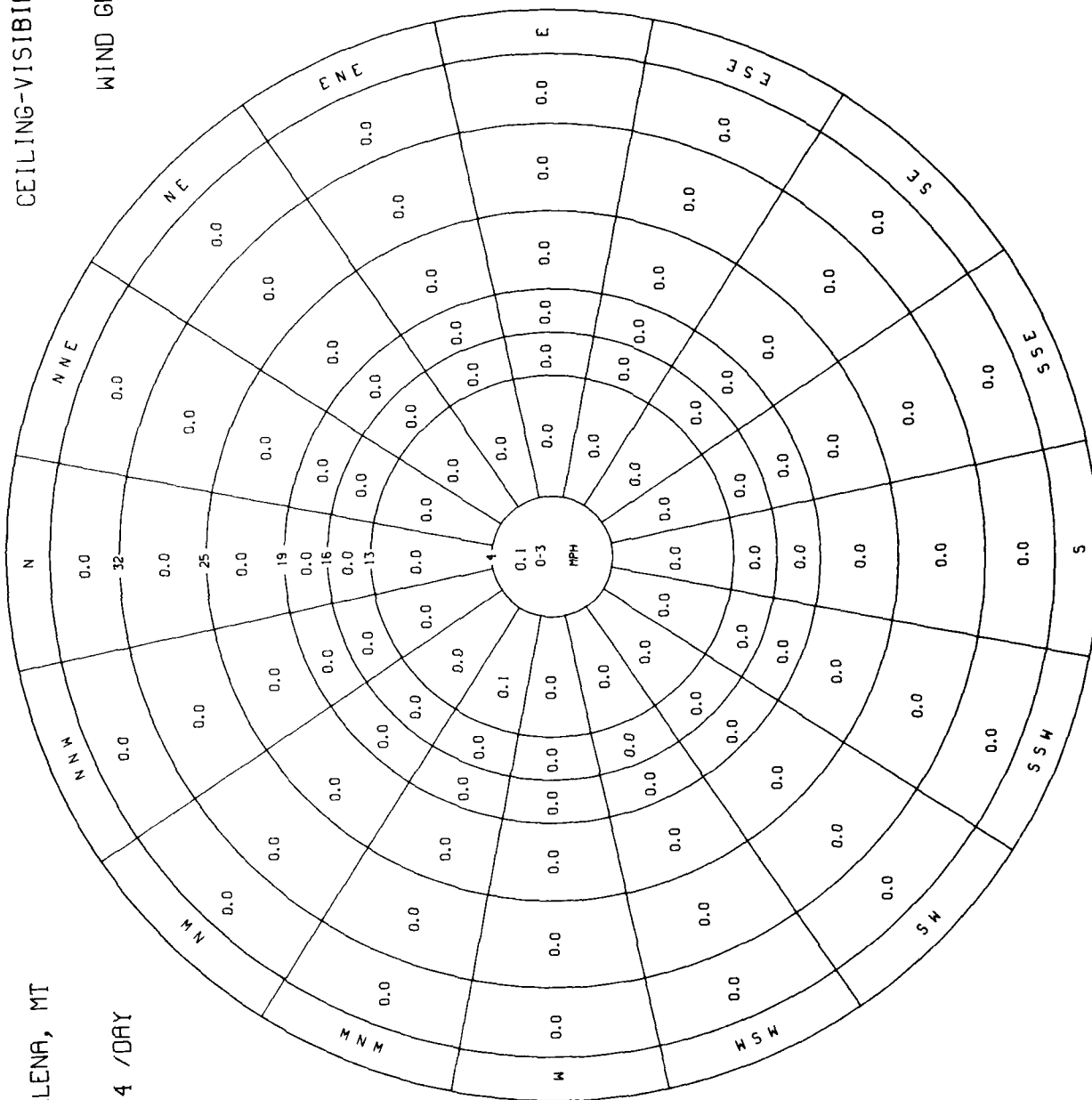
STATION NUMBER: 24144

NO. OBS.: 770

D I P	SPEED GROUPS (MPH)																					AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL							
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D						
N	.0	2.1	.1	3.2	.0	1.7	.0	1.2	.0	.4	.0	.0	.0	.0	.0	.2	8.6	9.8				
NNE	.0	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	2.4				
NE	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	3.0				
ENE	.0	.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.6				
E	.0	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	4.6				
ESE	.0	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	4.7				
SE	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.5				
SSE	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	4.5				
S	.0	1.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	4.0				
SSW	.0	.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	4.7				
SW	.0	.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	4.7				
WSW	.0	1.0	.1	3.5	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.0	.1	5.2	6.8				
W	.0	.9	.3	13.1	.1	2.5	.0	.3	.0	.1	.0	.1	.0	.0	.0	.3	7.0	9.1				
WNW	.0	1.4	.3	16.0	.1	4.0	.0	1.3	.0	.3	.0	.0	.0	.0	.0	.5	23.0	10.0				
NW	.1	2.7	.2	11.9	.1	3.5	.0	1.8	.0	1.0	.0	.0	.0	.0	.0	.4	21.0	10.2				
NNW	.0	1.4	.1	3.9	.0	1.4	.0	1.6	.0	.3	.0	.1	.0	.0	.0	.2	8.7	10.7				
CALM	.2	9.0														.2	9.0					
TOTAL	.5	22.3	1.1	55.5	.3	13.5	.1	6.2	.0	2.2	.0	.3	.0	.0	.0	2.0	100	8.4				

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HLN HELENA, MT

PERIOD: 1948-1978

CLASS 4 / DAY

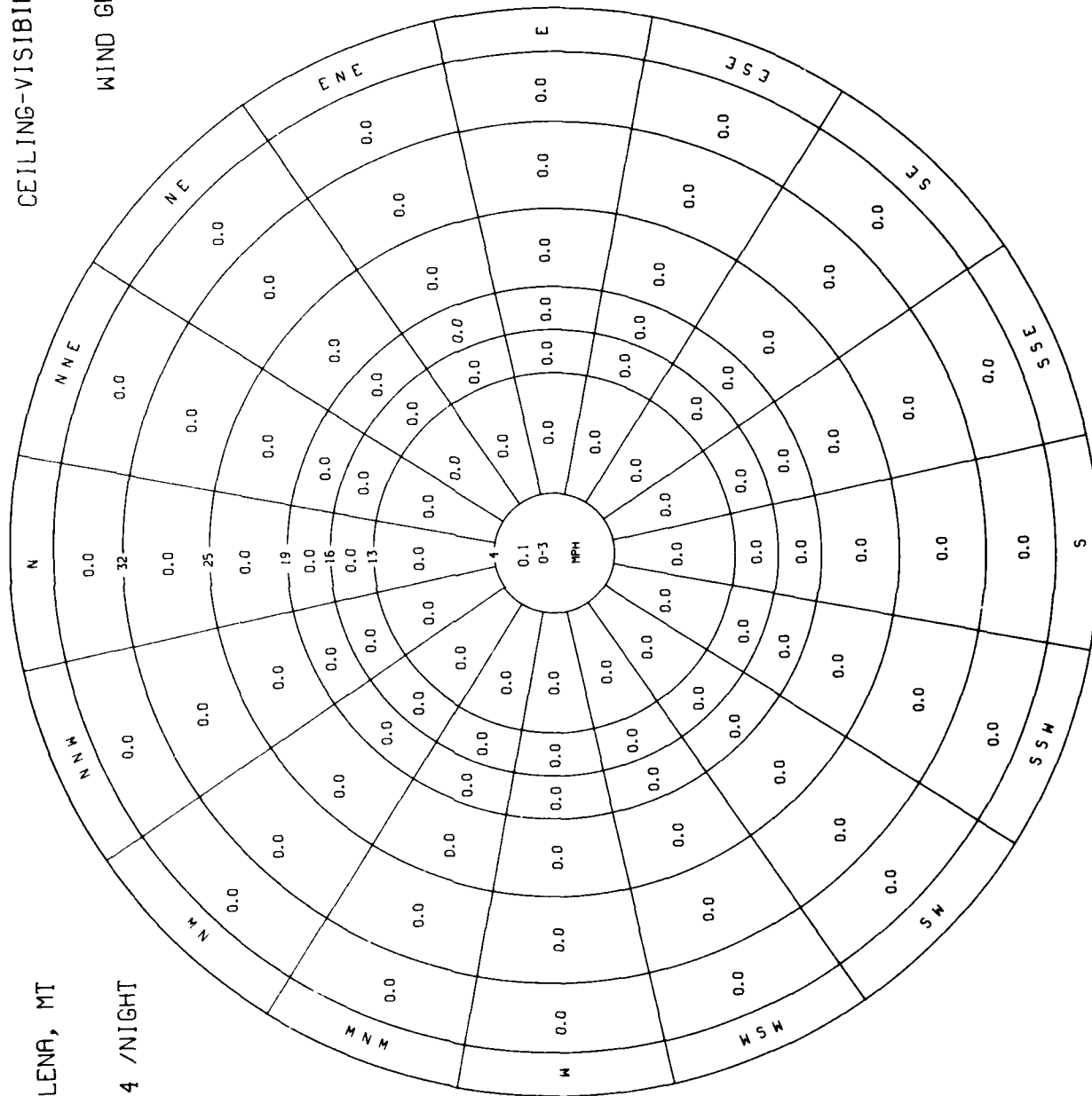
STATION NUMBER: 24144

NO. OBS.: 214

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.9	.0	4.2	.0	1.4	.0	.5	.0	.0	.0	.0	.0	.5	.0 7.5
NNE	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .5
NE	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
ENE	.0	.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.4
E	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .9
ESE	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.4
SE	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .5
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
S	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .5
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
SW	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .5
WSW	.0	1.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.9
W	.0	1.4	.0	9.8	.0	1.9	.0	.5	.0	.9	.0	.0	.0	.0	.1 14.5
WNW	.0	.5	.1	17.8	.0	3.3	.0	1.9	.0	.9	.0	.0	.0	.0	.1 24.3
NW	.0	3.3	.0	9.8	.0	6.1	.0	2.8	.0	2.3	.0	.0	.0	.0	.1 24.3
NNW	.0	1.4	.0	2.3	.0	2.3	.0	1.9	.0	.9	.0	.9	.0	.0	.0 9.8
CALM	.0	9.8													.0 9.8
TOTAL	.1	25.7	.2	45.3	.1	15.0	.0	7.5	.0	5.1	.0	.9	.0	.5	.4 100

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HLN HELENA, MT

PERIOD: 1948-1978

CLASS 4 / NIGHT

STATION NUMBER: 24144

NO. OBS.: 104

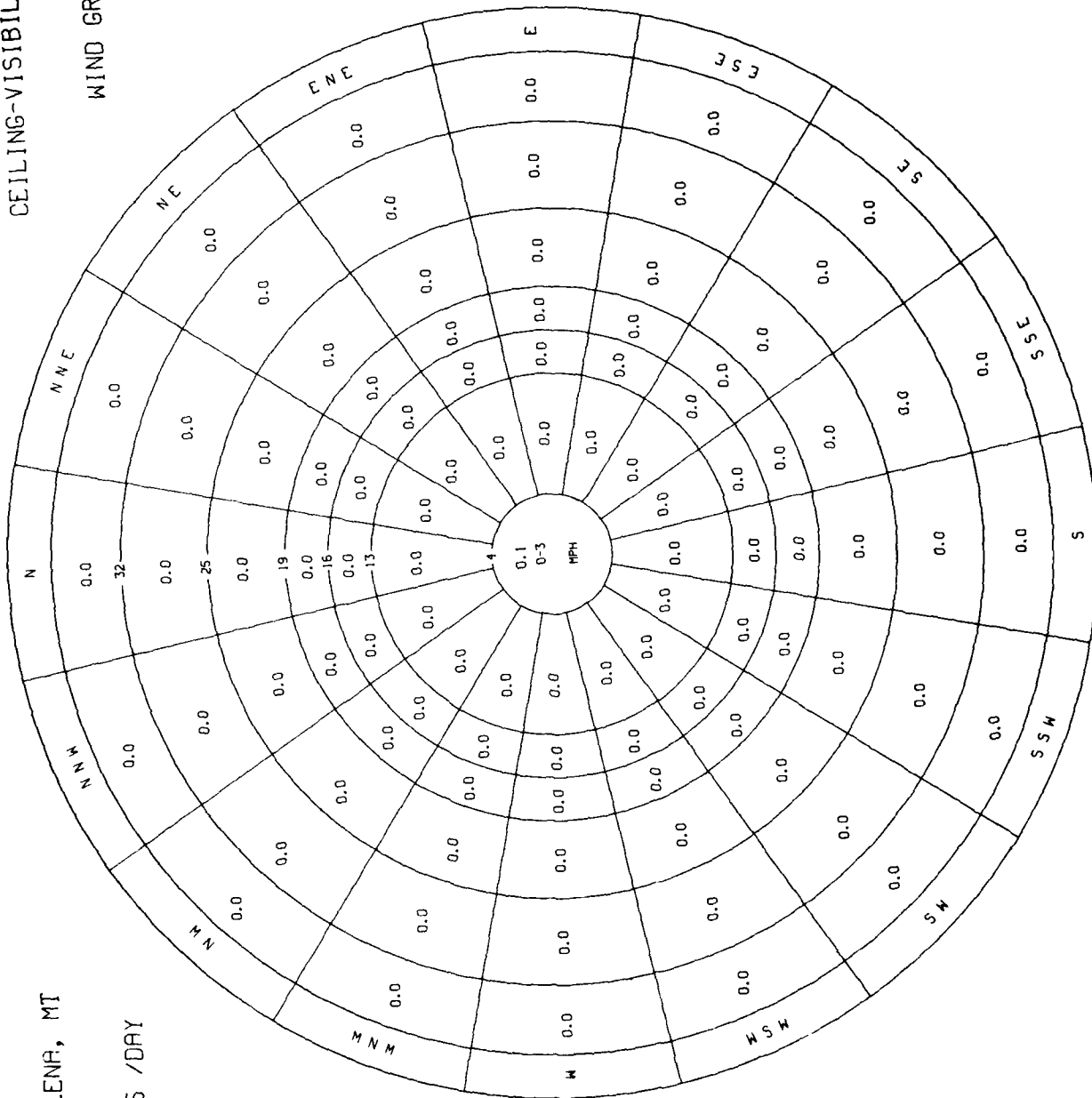
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	1.0	.0	1.9	.0	.0	.0	1.0	.0	1.0	.0	1.9	.0	.0	.0	6.7	16.1
NNE	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	5.0
NE	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	3.0
ENE	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	3.0
E	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	3.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0
SSE	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	2.5
S	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	6.0
SSW	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	5.0
SW	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	6.0
WSW	.0	1.9	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	2.9	9.7
W	.0	2.9	.0	10.6	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.4	7.4
WNW	.0	1.9	.0	11.5	.0	4.8	.0	1.9	.0	1.0	.0	.0	.0	.0	.1	21.2	10.4
NW	.0	2.9	.0	11.5	.0	4.8	.0	2.9	.0	1.9	.0	.0	.0	.0	.1	24.0	10.8
NNW	.0	1.0	.0	1.9	.0	2.9	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	7.7	11.4
CALM	.0	10.6													.0	10.6	
TOTAL	.1	29.8	.1	42.3	.0	13.5	.0	6.7	.0	5.8	.0	1.9	.0	.0	.3	100	8.6

CEILING-VISIBILITY

WIND GRAPH

HLN HELENA, MT

CLASS 5 /DAY



ANNUAL

STATION NAME:HLN HELENA, MT

PERIOD: 1948-1978

STATION NUMBER: 24144

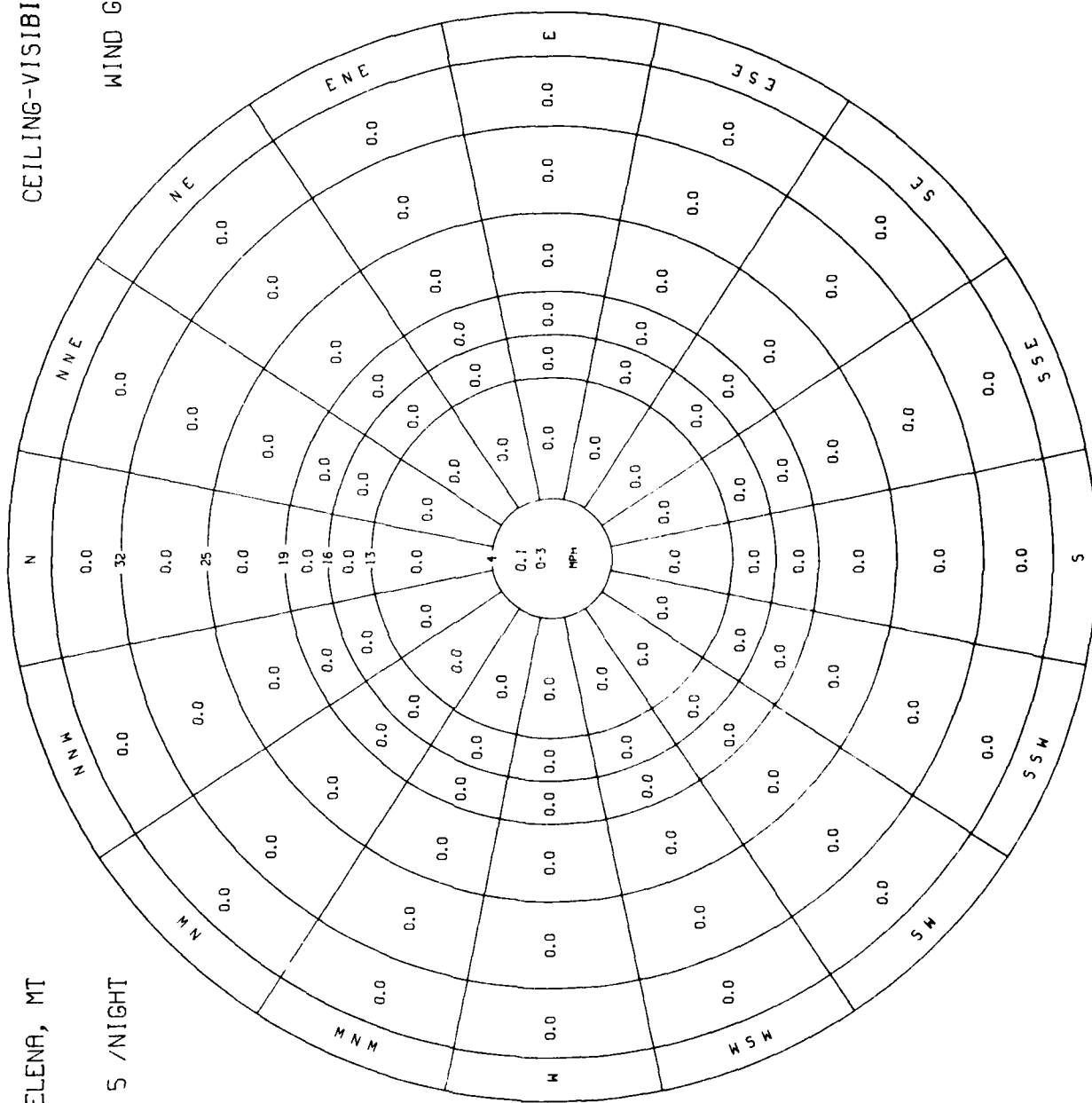
NO. OBS. ::

CLASS 5 / DAY

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	4.8	.0	1.6	.0	1.6	.0	.0	.0	1.6	.0	.0	.0	.0	.0	9.7	7.8
NNE	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	2.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	3.0
E	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.0
ESE	.0	1.6	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	4.3
SE	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	2.0
SSE	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	3.5
S	.0	3.2	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	3.8
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	4.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	9.7	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	11.3	9.1
MNW	.0	1.6	.0	4.8	.0	1.6	.0	3.2	.0	.0	.0	1.6	.0	.0	.0	12.9	13.2
NW	.0	3.2	.0	8.1	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	14.5	9.2
NNW	.0	.0	.0	3.2	.0	.0	.0	3.2	.0	1.6	.0	.0	.0	.0	.0	8.1	13.6
CALM	.0	19.4													.0	19.4	
TOTAL	1	43.5	0	37.1	0	3.2	0	9.7	0	3.2	0	3.2	0	.0	1	100	6.7

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HLN HELENA, MT

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 24144

NO. OBS.: 46

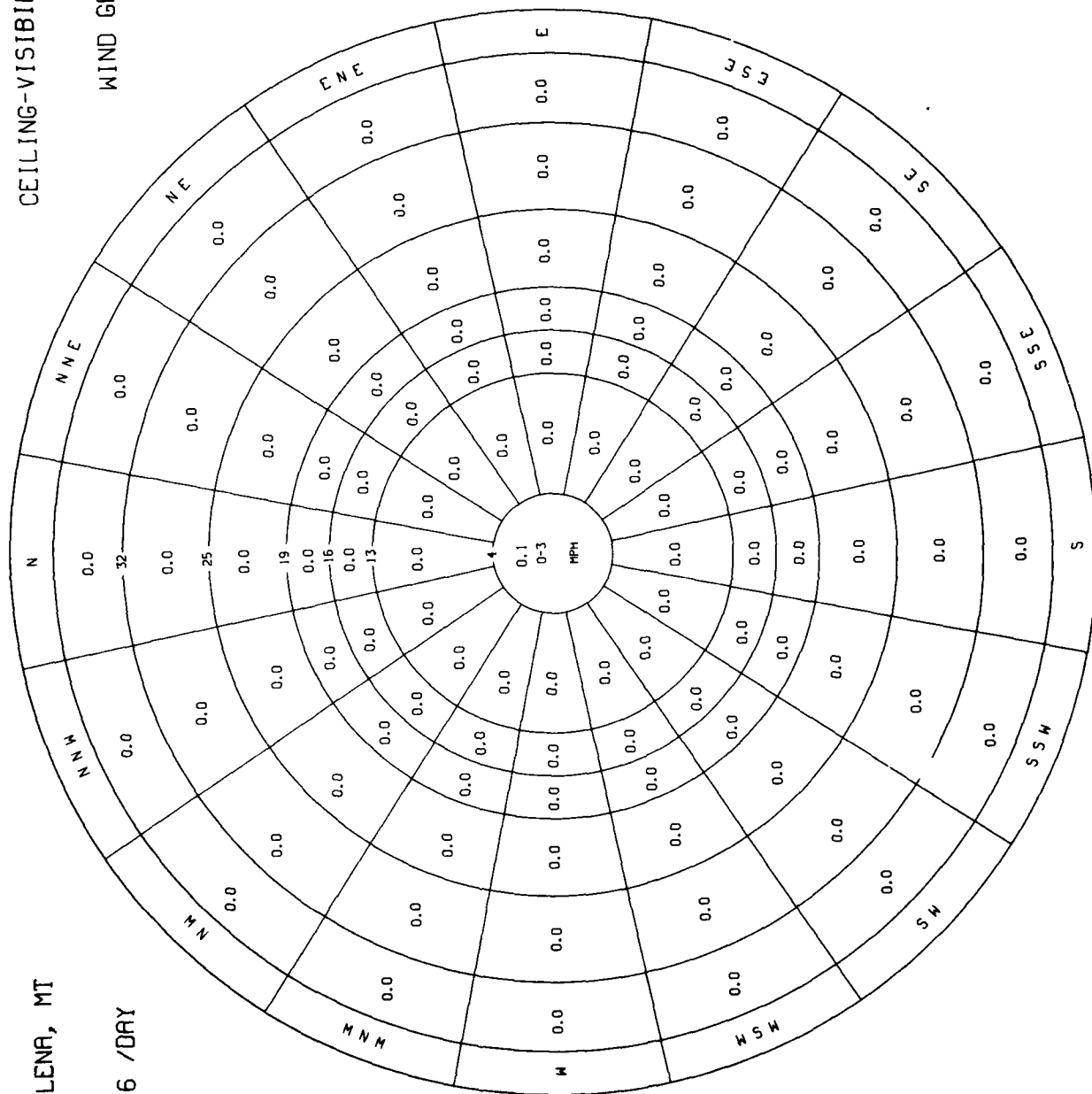
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	2.2	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	4.0	
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	1.0	
ESE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SSE	.0	2.2	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	4.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SSW	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SW	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	1.0	
WSW	.0	4.3	.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	3.0	
W	.0	4.3	.0	8.7	.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0	10.9	4.4	
WNW	.0	2.2	.0	2.2	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	6.5	8.3	
NW	.0	2.2	.0	4.3	.0	2.2	.0	.0	.0	2.2	.0	2.2	.0	.0	13.0	13.3	
NNW	.0	.0	.0	8.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	9.5	
CALM	.0	23.9													.0	23.9	
TOTAL	.1	47.8	.0	34.8	.0	8.7	.0	2.2	.0	2.2	.0	4.3	.0	.1	100	6.3	

CEILING-VISIBILITY

WIND GRAPH

HLN HELENA, MT

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HLN HELENA, MT

PERIOD: 1948-1978

CLASS 6 / DAY

STATION NUMBER: 24144

NO. OBS.: 88

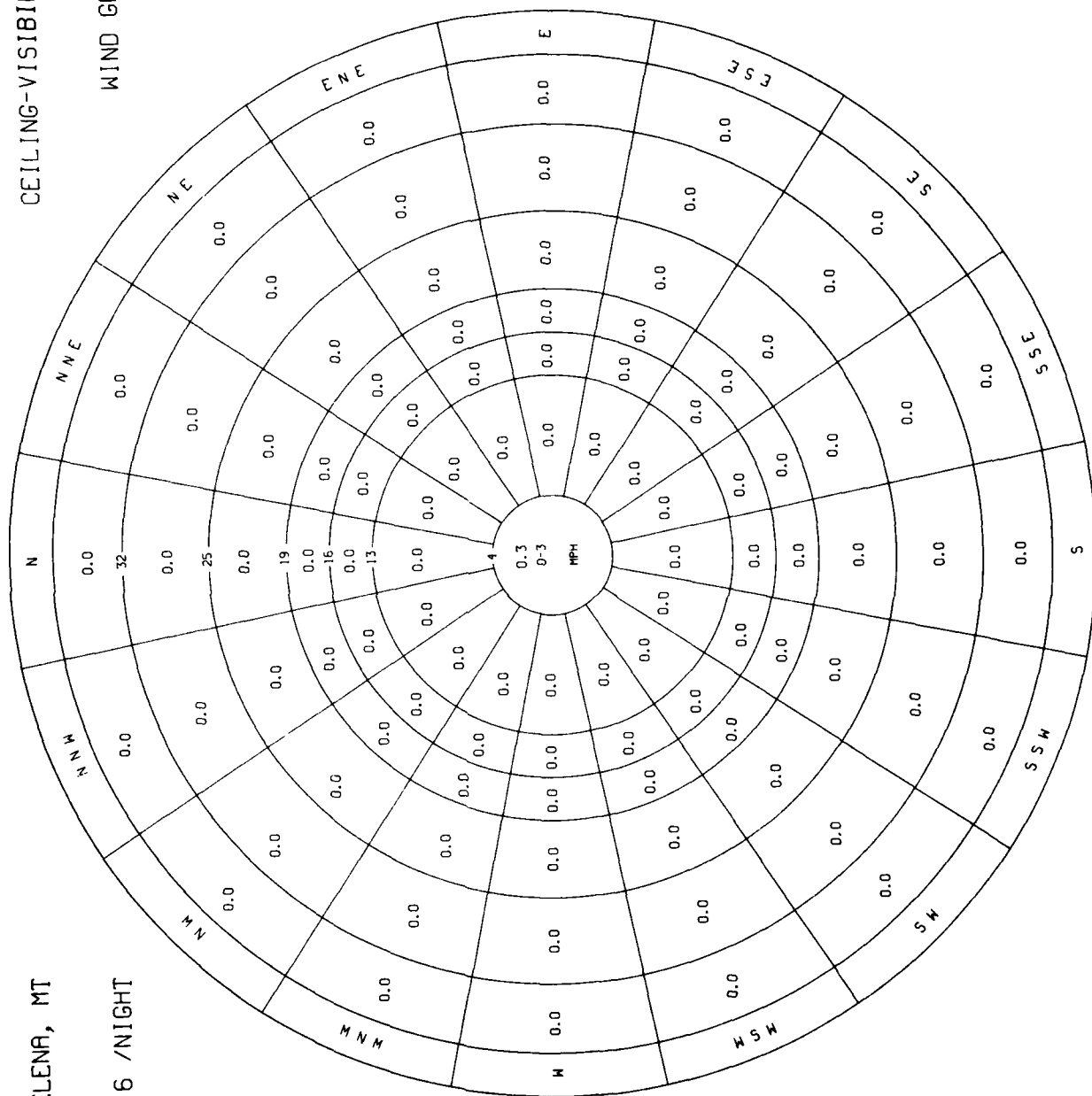
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	6.8	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	3.0
NNE	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	3.5
NE	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	3.0
ENE	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	3.5
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	2.3	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	3.7
SSE	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	3.0
S	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	2.7
SSW	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	4.0
SW	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	2.5
WSW	.0	3.4	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	4.0
W	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	3.0
WNW	.0	5.7	.0	5.7	.0	2.3	.0	.0	.0	1.1	.0	.0	.0	.0	.0	14.8	7.1
NW	.0	2.3	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	2.7
NNW	.0	6.8	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	10.2	6.9
CALM	.1	31.8													.1	31.8	
TOTAL	.1	76.1	.0	19.3	.0	2.3	.0	.0	.0	1.1	.0	.0	.0	1.1	.2	100	3.2

CEILING-VISIBILITY

WIND GRAPH

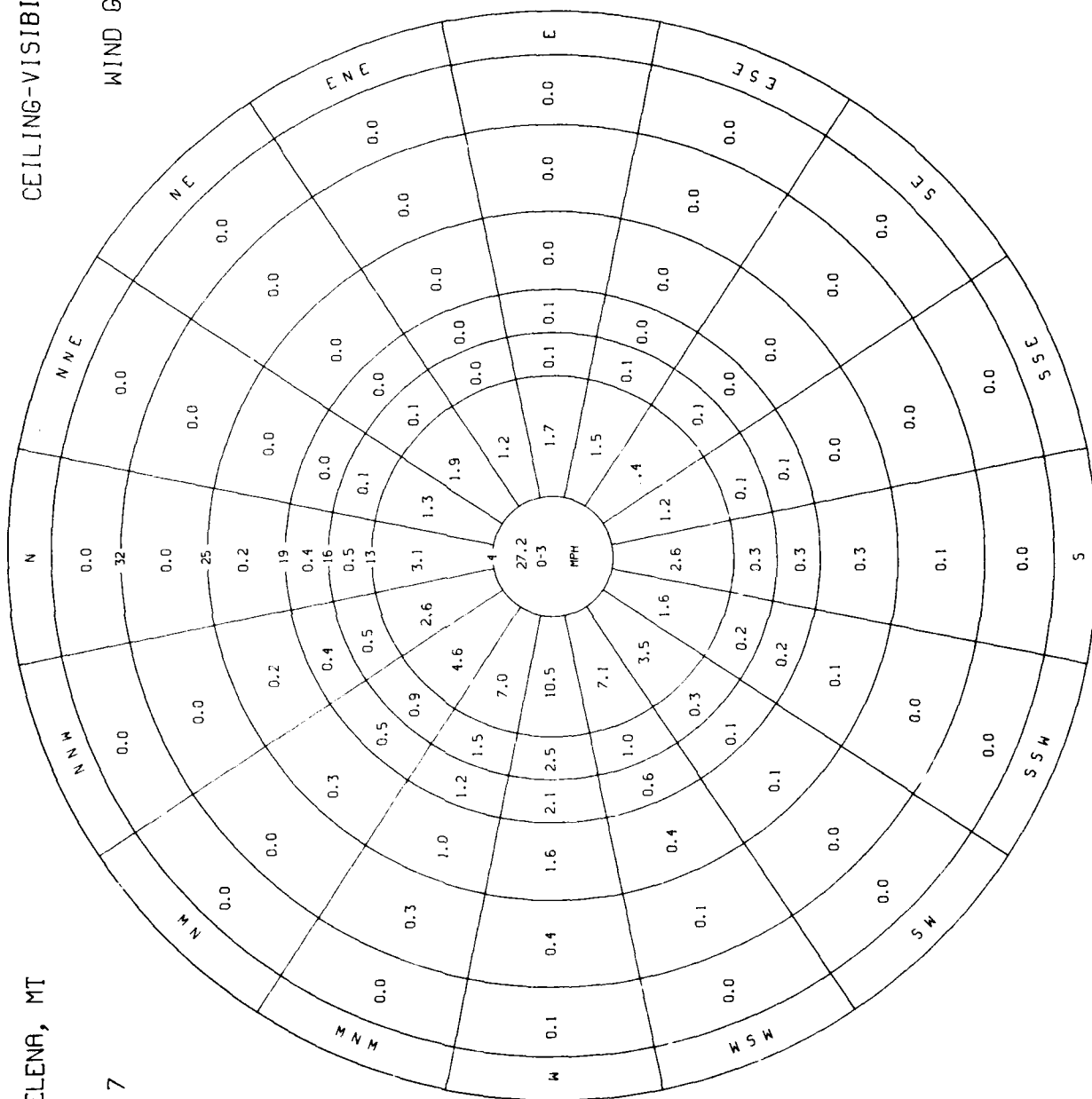
HLN HELENA, MT

CLASS 6 /NIGHT



CEILING-VISIBILITY

WIND GRAPH



NATIONAL CLIMATIC CENTER ASHEVILLE NC

WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS. VOLUME V--ETC(U)
JUN 81 DOT-FA79WAI-057

JUN 81

DOT-FA79WAI-057

NL

UNCLASSIFIED

$$\begin{aligned} \frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} \frac{d}{dt} \right) &= \frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} \frac{d}{dt} \right) \\ &= \frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} \frac{d}{dt} \right) \\ &= \frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} \frac{d}{dt} \right) \end{aligned}$$

A 10x10 grid of squares. The top-left square is white, and the rest are black. There is a small white square in the top-left corner of the grid.

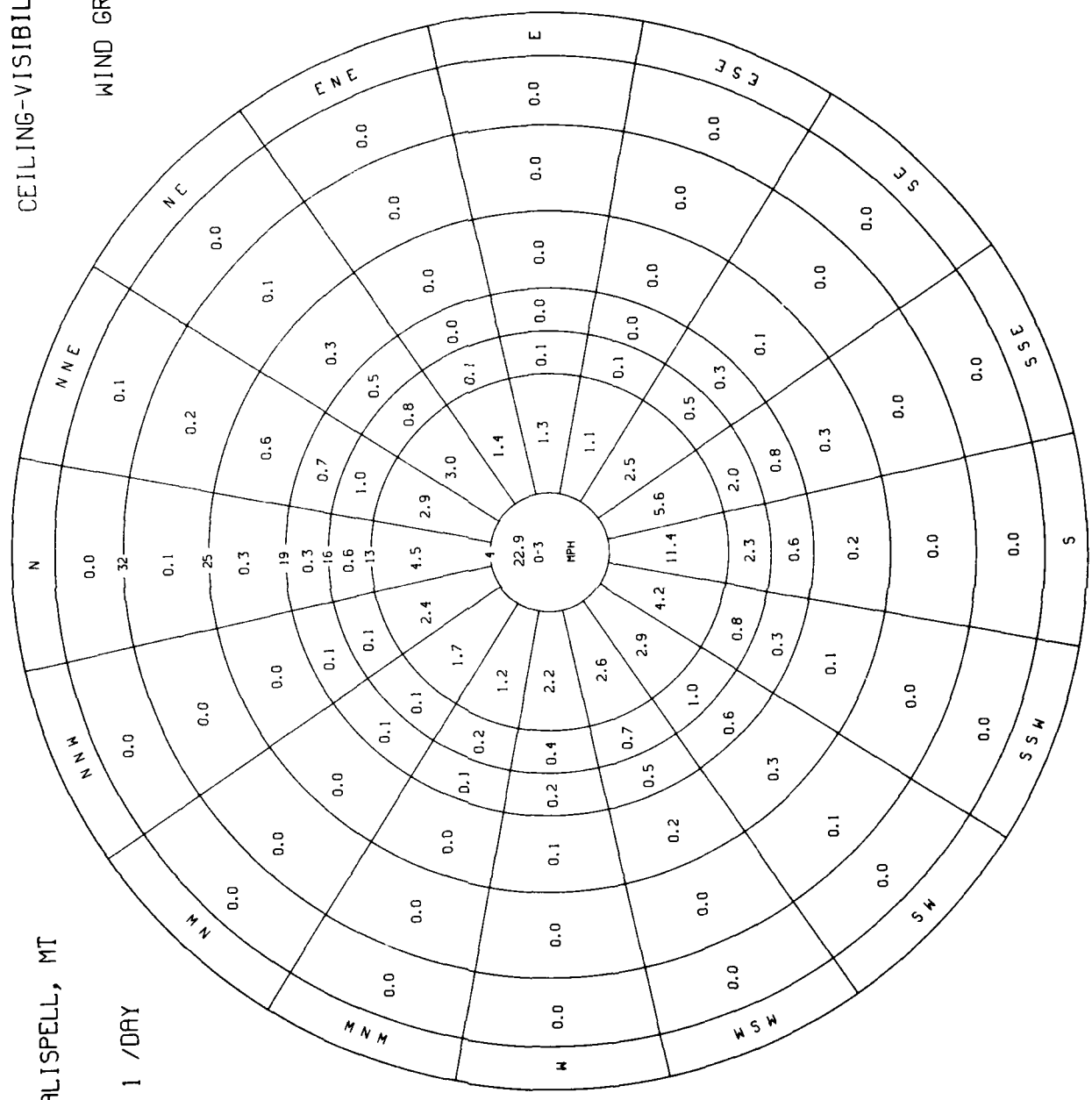
A
8166

CEILING-VISIBILITY

WIND GRAPH

FCA KALISPELL, MT

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FCA KALISPELL, MT

PERIOD: 1950-1978

CLASS 1 / DAY

STATION NUMBER: 24146

NO. OBS.: 27008

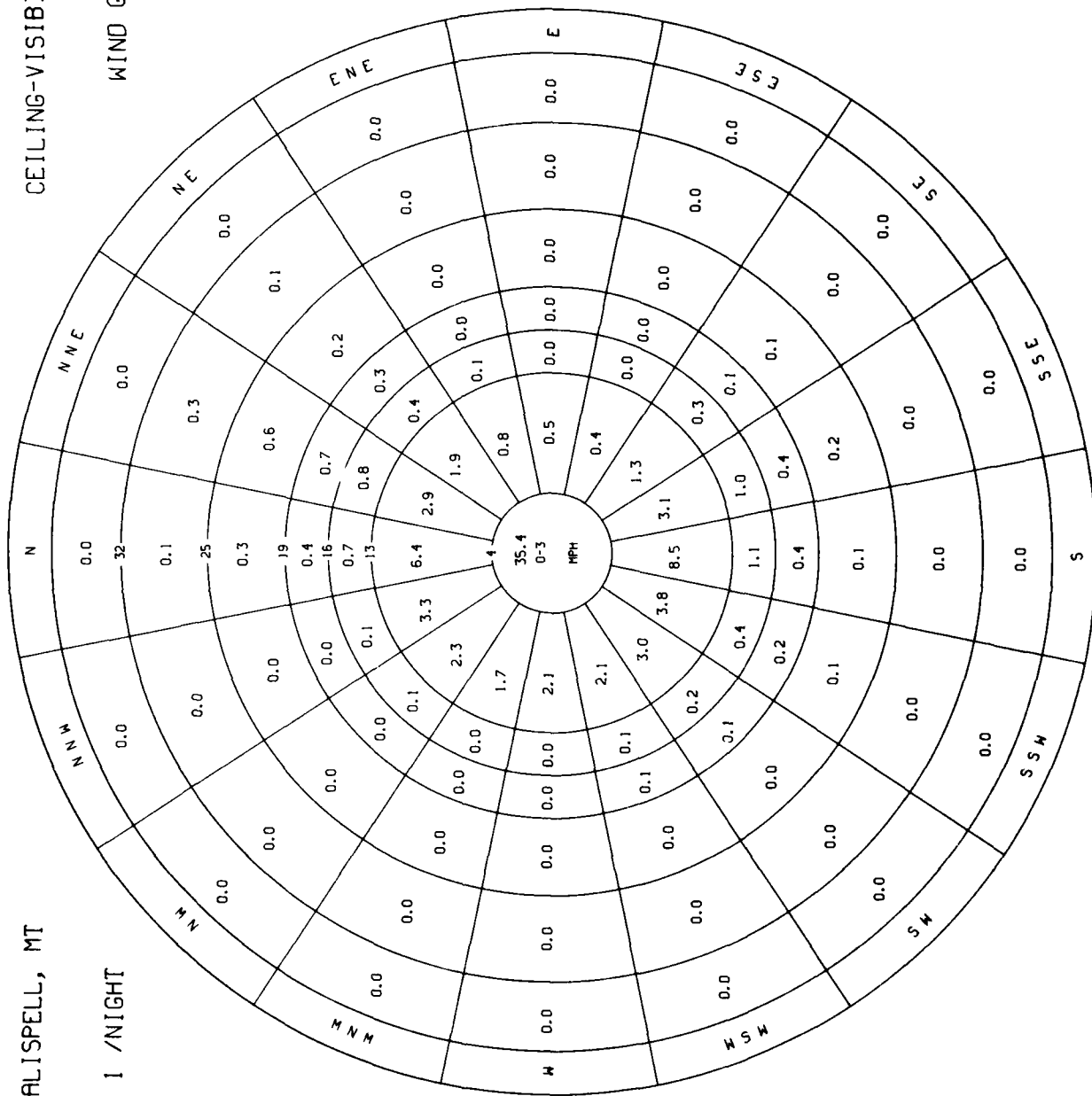
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	1.0	1.1	4.5	4.9	.6	.6	.3	.3	.3	.3	.1	.1	.0	.0	6.8	7.3	8.5
NNE	.6	.7	2.9	3.1	1.0	1.0	.7	.8	.6	.6	.2	.2	.1	.1	6.0	6.5	11.8
NE	.6	.7	3.0	3.3	.8	.8	.5	.6	.3	.4	.1	.1	.0	.0	5.4	5.8	10.3
ENE	.3	.3	1.4	1.5	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	2.0	2.1	7.2
E	.5	.5	1.3	1.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.8	2.0	5.9
ESE	.3	.3	1.1	1.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.6	6.8
SE	.4	.4	2.5	2.7	.5	.5	.3	.3	.1	.1	.0	.0	.0	.0	3.7	4.0	9.0
SSE	.5	.5	5.6	6.1	2.0	2.1	.8	.9	.3	.3	.0	.0	.0	.0	9.2	9.9	10.6
S	.9	1.0	11.4	12.3	2.3	2.5	.6	.7	.2	.2	.0	.0	.0	.0	15.5	16.7	9.4
SSW	.8	.8	4.2	4.5	.8	.8	.3	.3	.1	.1	.0	.0	.0	.0	6.2	6.7	8.9
SW	.7	.7	2.9	3.1	1.0	1.1	.6	.7	.3	.3	.1	.1	.0	.0	5.6	6.0	10.3
WSW	.6	.6	2.6	2.8	.7	.8	.5	.6	.2	.3	.0	.1	.0	.0	4.7	5.1	10.0
W	.9	1.0	2.2	2.4	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	3.8	4.1	7.9
WNW	.5	.5	1.2	1.3	.2	.2	.1	.1	.0	.1	.0	.0	.0	.0	2.0	2.2	7.3
NW	.7	.7	1.7	1.8	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	2.6	2.7	6.7
NNW	.6	.7	2.4	2.5	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.2	3.4	6.9
CALM	13.0	14.0													13.0	14.0	
TOTAL	22.9	24.6	51.0	54.8	10.6	11.4	5.3	5.7	2.6	2.8	.6	.6	.1	.1	93.1	100	8.0

CEILING-VISIBILITY

WIND GRAPH

FCA KALISPELL, MT

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1950-1978

STATION NAME: FCA WALISPELL, MT

CLASS 1 / NIGHT

NO. OBS.: 18547

STATION NUMBER: 24146

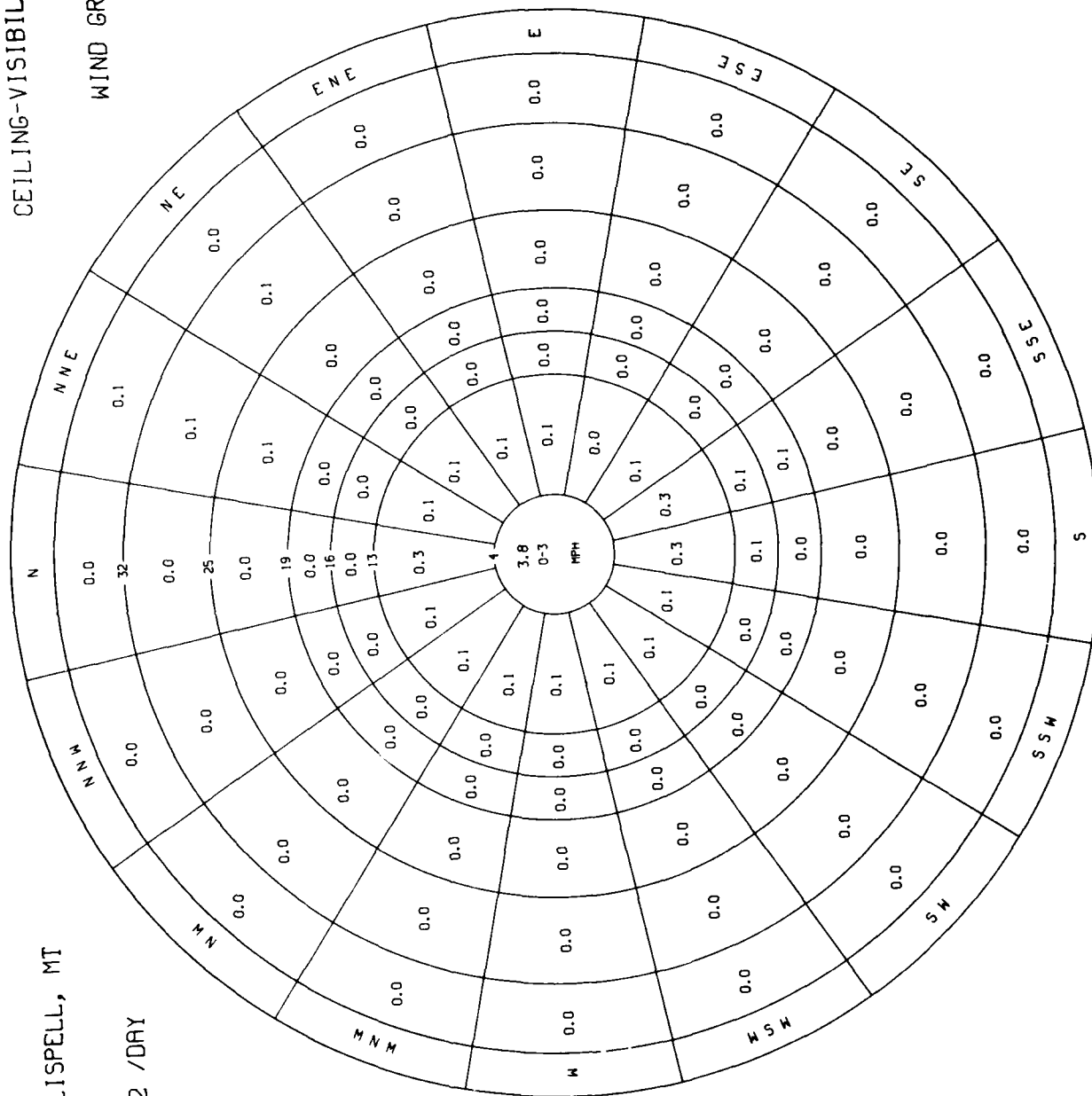
D I R	SPEED GROUPS (MPH)																					AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL							
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D						
N	2.0	2.2	6.4	7.1	.7	.8	.4	.5	.3	.4	.1	.1	.0	.0	10.0	11.0	7.7					
NNE	.8	.9	2.9	3.2	.8	.8	.7	.8	.6	.6	.3	.3	.0	.0	6.0	6.7	11.3					
NNE	.8	.9	1.9	2.1	.4	.5	.3	.3	.2	.3	.1	.1	.0	.1	3.8	4.2	9.6					
ENE	.5	.5	.8	.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.5	6.0					
E	.4	.5	.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.1	5.0					
ESE	.2	.2	.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	5.8					
SE	.2	.3	1.3	1.4	.3	.3	.1	.1	.1	.1	.0	.0	.0	.0	2.0	2.2	8.9					
SSE	.3	.4	3.1	3.5	1.0	1.1	.4	.4	.2	.2	.0	.0	.0	.0	5.0	5.6	10.4					
S	.9	1.0	8.5	9.5	1.1	1.3	.4	.5	.1	.1	.0	.0	.0	.0	11.2	12.4	8.8					
SSW	.5	.6	3.8	4.2	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	5.0	5.5	8.2					
SW	.8	.9	3.0	3.3	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	4.1	4.5	7.3					
WSW	.9	1.0	2.1	2.3	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	3.1	3.5	6.0					
W	1.6	1.7	2.1	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	4.1	4.8					
WNW	.9	1.0	1.7	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	3.0	5.4					
NW	1.3	1.5	2.3	2.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	3.8	4.2	5.5					
NNW	1.1	1.3	3.3	3.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	4.6	5.1	6.1					
CALM	22.2	24.6													22.2	24.6						
TOTAL	35.4	39.3	44.4	49.2	5.3	5.9	2.7	3.0	1.7	1.9	.6	.7	.1	.1	90.2	100	6.0					

CEILING-VISIBILITY

FCA KALISPELL, MT

WIND GRAPH

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FCA KALISPELL, MT

PERIOD: 1950-1978

CLASS 2 / DAY

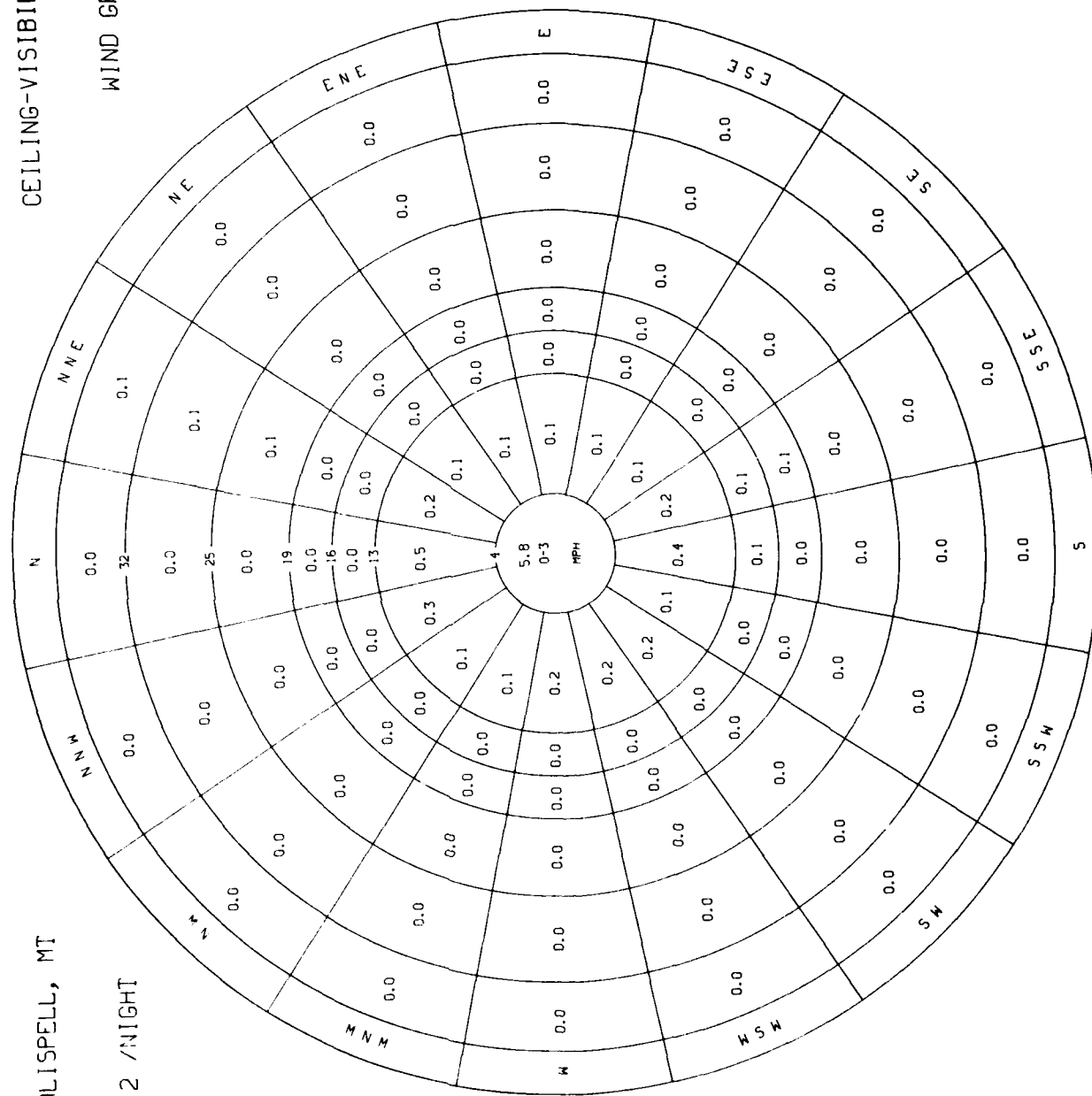
STATION NUMBER: 24146

NO. OBS.: 2009

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D
N	.1	1.9	.3	3.9	.0	.2	.0	.3	.0	.4	.0	.2	.0	.2	.5	7.2
NNE	.1	1.2	.1	1.9	.0	.2	.0	.5	.1	.9	.1	1.1	.1	1.1	.5	7.0
NNE	.1	1.1	.1	2.1	.0	.3	.0	.1	.0	.3	.1	.7	.0	.2	.4	5.1
ENE	.0	.6	.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.5
E	.0	.5	.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.6
ESE	.0	.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.1
SE	.0	.4	.1	1.0	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.1	2.0
SSE	.0	.6	.3	4.2	.1	1.1	.1	.9	.0	.5	.0	.0	.0	.0	.5	7.5
S	.1	1.2	.3	4.7	.1	1.1	.0	.5	.0	.2	.0	.0	.0	.0	.5	7.8
SSW	.1	1.0	.1	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.7
SW	.1	1.1	.1	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.2
WSW	.1	1.0	.1	2.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.1
W	.1	1.4	.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.5
WNW	.1	1.2	.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.0
NW	.0	.7	.1	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.1
NNW	.1	1.3	.1	2.1	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.3	3.7
CALM	2.7	39.7													2.7	39.7
TOTAL	3.8	55.5	2.2	31.6	.3	3.7	.2	2.8	.2	2.6	.2	2.2	.1	1.6	6.9	100
																5.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FCA KALISPELL, MT

PERIOD: 1950-1978

CLASS 2 / NIGHT

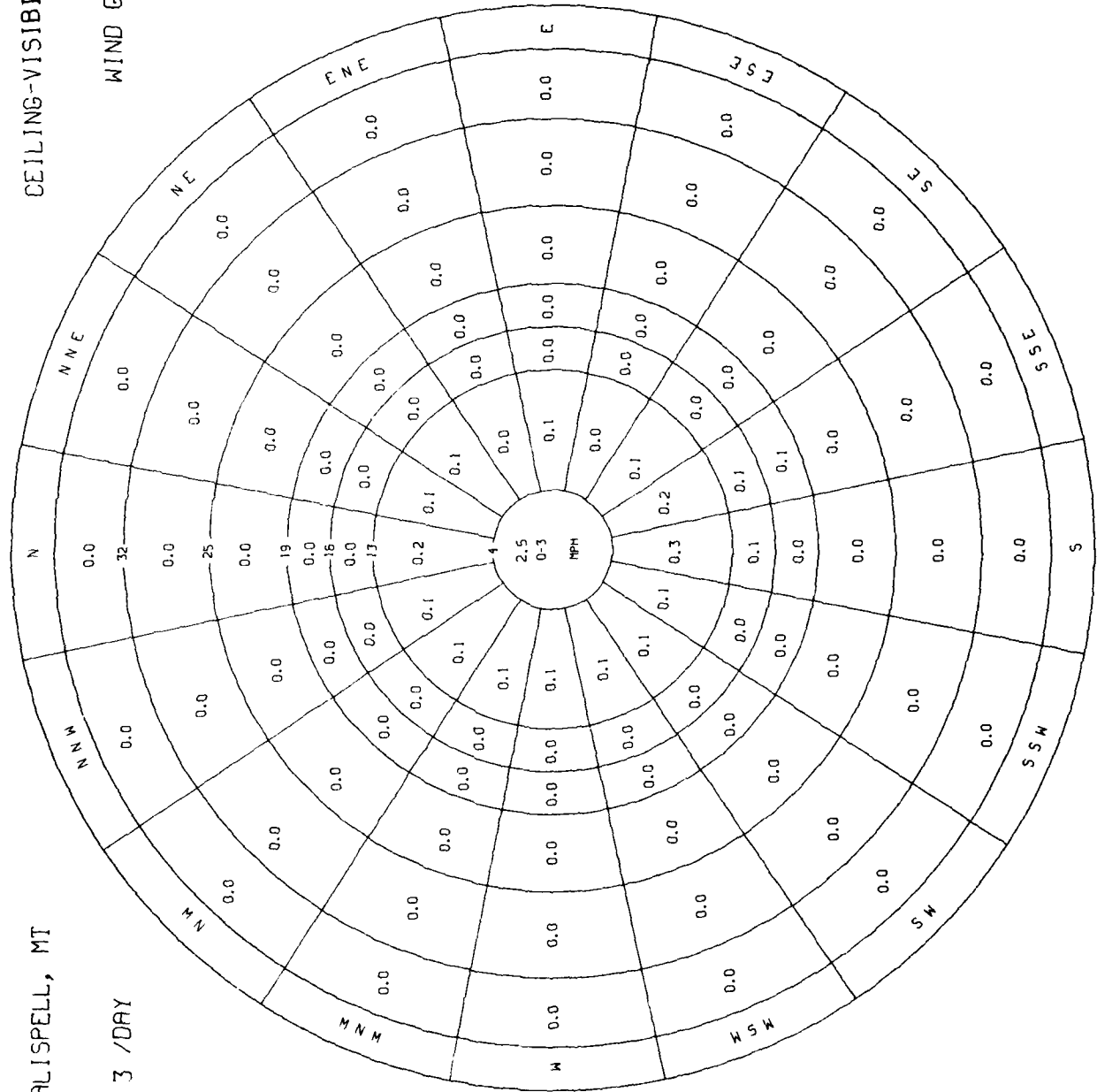
STATION NUMBER: 24146

NO. OBS.: 2024

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.2	2.2	.5	4.9	.0	.2	.0	.2	.0	.4	.0	.4	.0	.1	.8 8.4
NNE	.1	.9	.2	1.8	.0	.2	.0	.4	.1	1.3	.1	.9	.1	1.5	.7 7.1
NE	.1	1.4	.1	1.3	.0	.1	.0	.1	.0	.2	.0	.5	.0	.1	.4 3.8
ENE	.1	.6	.1	.5	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1 1.3
E	.1	.7	.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 1.3
ESE	.0	.3	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 .9
SE	.0	.5	.1	1.2	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.2 2.0
SSE	.0	.5	.2	2.4	.1	1.1	.1	.7	.0	.1	.0	.0	.0	.0	.5 4.9
S	.1	1.4	.4	4.0	.1	1.1	.0	.2	.0	.1	.0	.0	.0	.0	.7 6.8
SSW	.1	.9	.1	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2 2.3
SW	.2	1.6	.2	1.7	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.4 3.6
WSW	.1	1.3	.2	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3 2.9
W	.2	1.9	.2	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4 3.7
WNW	.1	1.2	.1	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3 2.6
NW	.1	1.1	.1	1.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3 2.7
NNW	.1	1.2	.3	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4 3.9
CALM	4.1	41.5													4.1 41.5
TOTAL	5.8	59.3	2.8	29.0	.3	3.3	.2	2.1	.2	2.5	.2	2.0	.2	1.8	9.8 100

FCA KALISPELL, MT

CLASS 3 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1950-1978

STATION NAME: FCA KALISPELL, MT

CLASS 3 / DAY

NO. OBS.: 1412

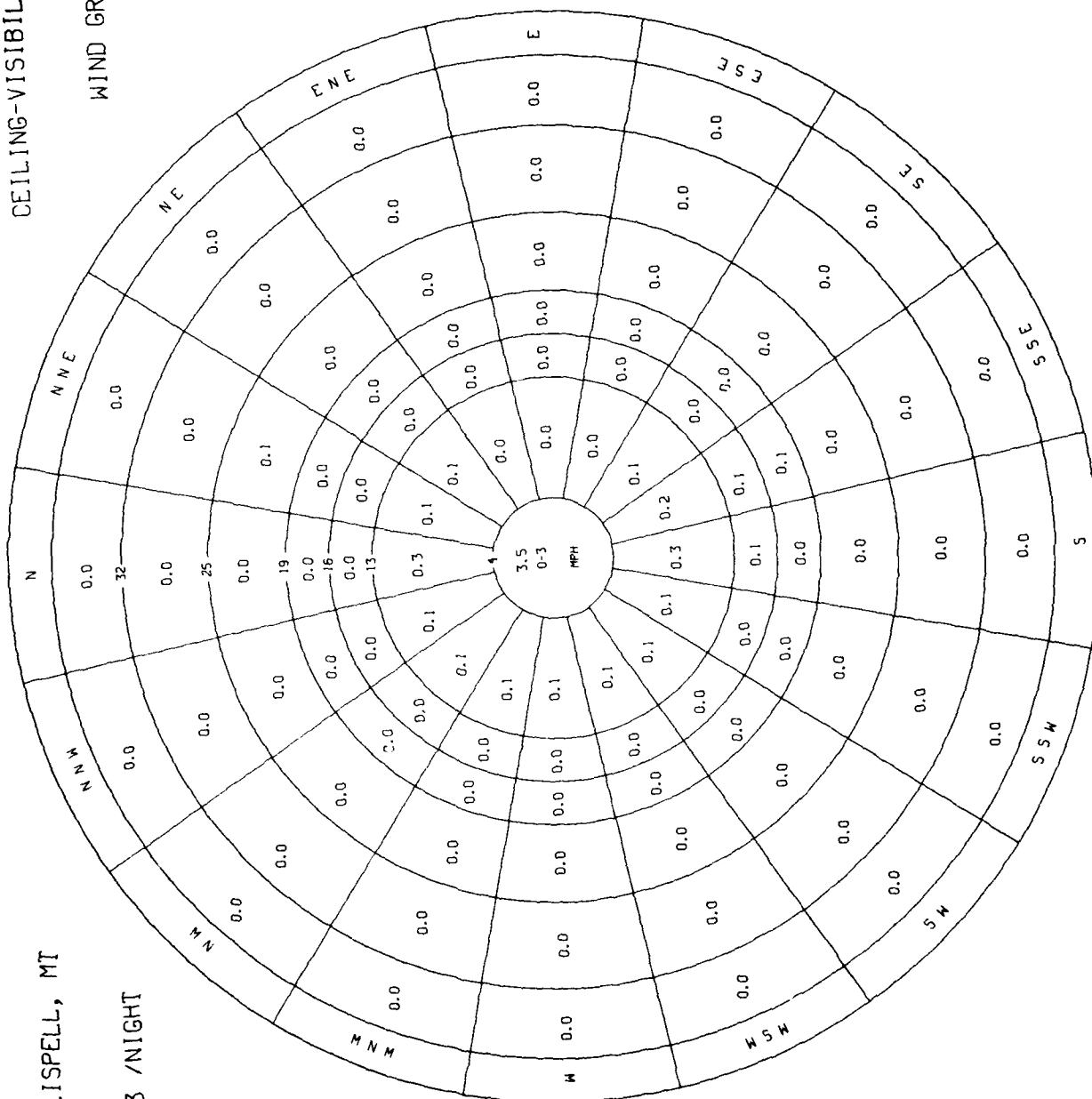
STATION NUMBER: 24146

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	1.9	.2	4.0	.0	.3	.0	.3	.0	.4	.0	.2	.0	.1	.4	7.2	7.8
NNE	.1	1.2	.1	2.3	.0	.3	.0	.5	.0	.7	.0	1.0	.0	.3	.3	6.3	13.7
NE	.0	.9	.1	2.3	.0	.4	.0	.2	.0	.4	.0	.5	.0	.1	.2	4.8	11.2
ENE	.0	.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	1.4	6.1
E	.0	.5	.1	1.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.8	5.5
ESE	.0	.5	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.2	4.8
SE	.0	.3	.1	1.1	.0	.5	.0	.3	.0	.1	.0	.0	.0	.0	.1	2.3	9.7
SSE	.0	.5	.2	5.1	.1	1.4	.1	1.3	.0	.7	.0	.1	.0	.0	.4	9.1	11.4
S	.1	1.3	.3	5.4	.1	1.3	.0	.6	.0	.3	.0	.0	.0	.0	.4	8.9	9.3
SSW	.1	1.1	.1	2.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.2	5.7
SW	.1	1.1	.1	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.1	5.5
WSW	.0	.7	.1	2.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.3	6.1
W	.1	1.3	.1	1.1	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	2.5	4.9
WNW	.0	1.0	.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.1	4.3
NW	.0	.7	.1	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.1	5.0
NNW	.1	1.2	.1	2.2	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.2	3.8	6.9
CALM	1.8	36.9													1.8	36.9	
TOTAL	2.5	51.7	1.7	35.3	.2	4.7	.2	3.3	.1	2.8	.1	1.9	.0	.4	4.9	100	5.4

FCA KALISPELL, MT

CLASS 3 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FCA KALISPELL, MT

PERIOD: 1950-1978

CLASS 3 / NIGHT

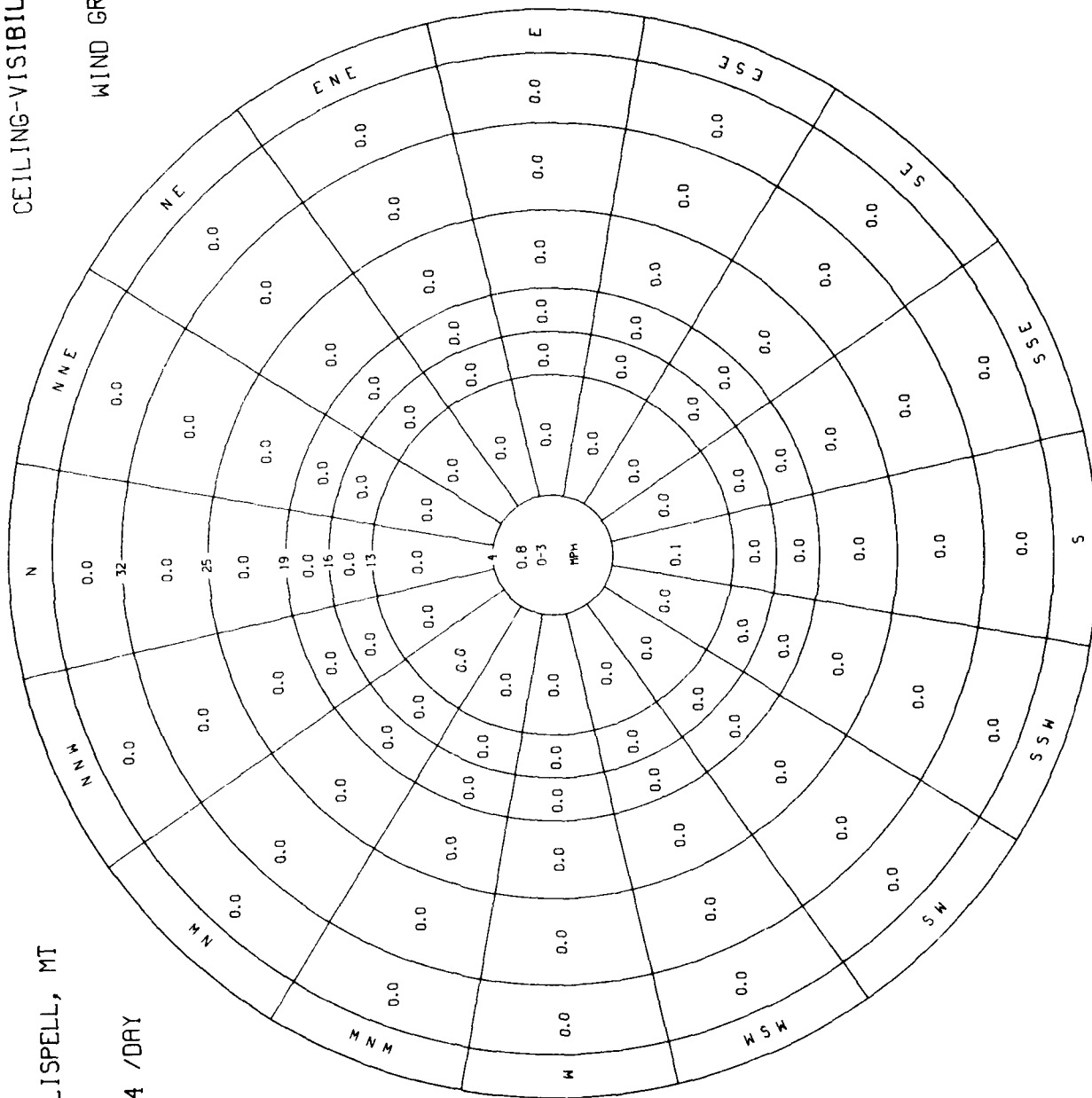
STATION NUMBER: 24146

NO. OBS.: 1248

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.1	2.2	.3	5.4	.0	.3	.0	.2	.0	.3	.0	.4	.0	.1	.5	9.0	7.9
NNE	.1	1.0	.1	1.8	.0	.3	.0	.6	.1	1.6	.0	.6	.0	.5	.4	6.3	16.2
NNE	.1	1.2	.1	1.4	.0	.2	.0	.2	.0	.2	.0	.3	.0	.0	.2	3.4	9.0
ENE	.0	.6	.0	.6	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.1	1.4	6.1
E	.0	.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.0	4.2
ESE	.0	.2	.0	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	7.1
SE	.0	.3	.1	1.4	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.1	2.2	8.5
SSE	.0	.4	.2	3.0	.1	1.5	.1	1.0	.0	.2	.0	.1	.0	.0	.4	6.2	11.3
S	.1	1.8	.3	5.4	.1	1.5	.0	.2	.0	.2	.0	.0	.0	.0	.6	9.1	8.5
SSW	.0	.7	.1	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.6	5.8
SW	.1	1.9	.1	1.5	.0	.1	.0	.2	.0	.1	.0	.0	.0	.0	.2	3.8	5.6
WSW	.1	1.4	.1	1.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	2.7	4.9
W	.1	2.2	.1	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.5	4.0
WNW	.1	1.3	.1	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.0	4.8
NW	.1	1.2	.1	1.4	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	2.7	5.1
NNW	.1	1.3	.1	2.2	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	3.7	5.7
CALM	2.3	38.7													2.3	38.7	
TOTAL	3.5	56.9	1.9	31.2	.3	4.4	.2	2.6	.2	3.0	.1	1.4	.0	.6	6.1	100	5.0

CEILING-VISIBILITY

WIND GRAPH



FCA KALISPELL, MT

CLASS 4 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FCA KALISPELL, MT

PERIOD: 1950-1978

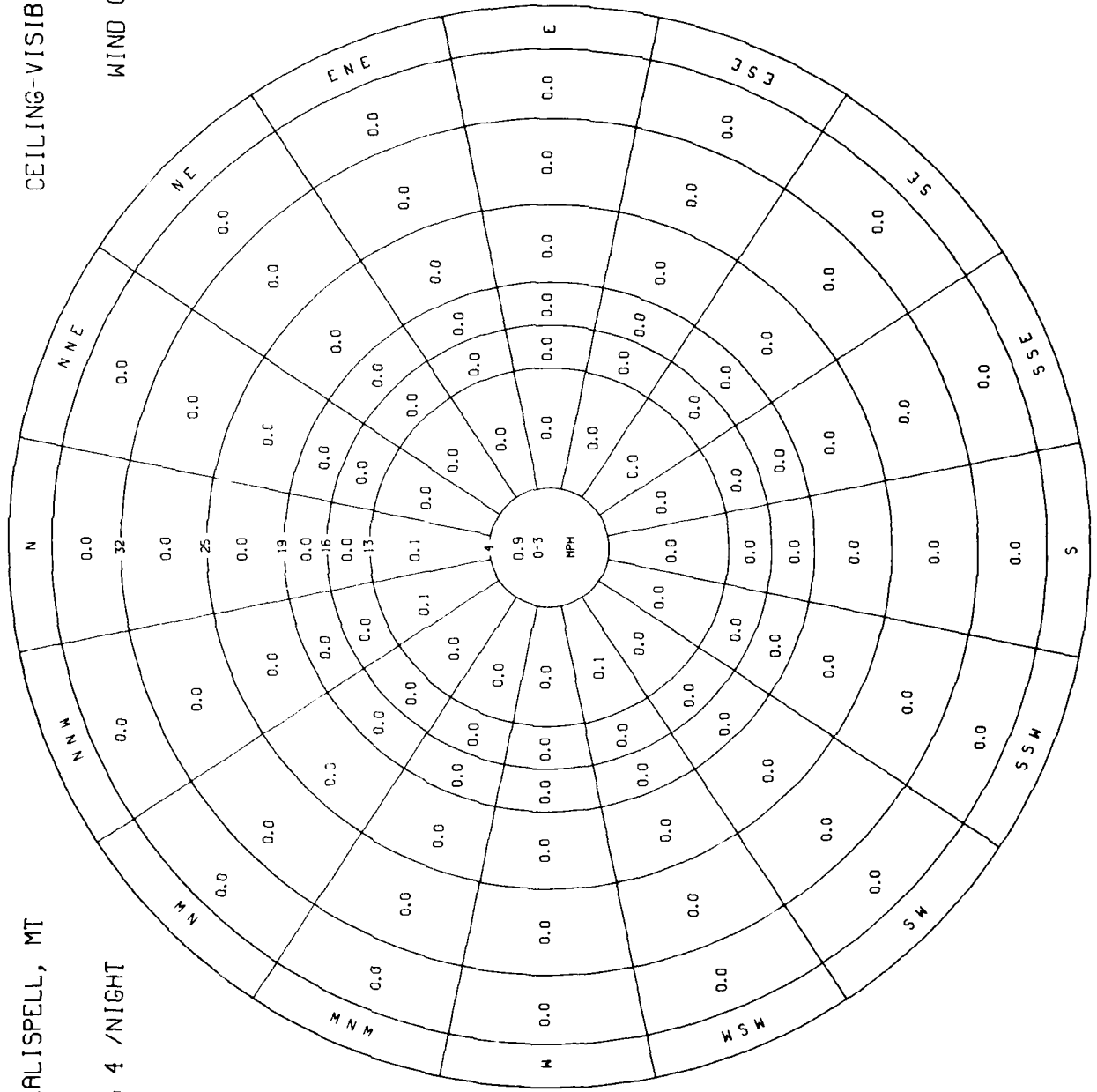
CLASS 4 / DAY

STATION NUMBER: 24146

NO. OBS.: 365

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.4	.0	3.3	.0	.3	.0	.5	.0	.3	.0	.5	.0	.3	.1	6.6	10.2
NNE	.0	1.1	.0	1.1	.0	.0	.0	1.1	.0	1.9	.0	1.9	.0	2.7	.1	9.9	23.0
NE	.0	1.6	.0	2.5	.0	.3	.0	.0	.0	.3	.0	1.1	.0	.3	.1	6.0	11.5
ENE	.0	.8	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	4.4
E	.0	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	4.7
ESE	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	4.0
SE	.0	.0	.0	.8	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	1.1	9.5
SSE	.0	.3	.0	3.0	.0	.5	.0	.3	.0	.3	.0	.0	.0	.0	.1	4.4	11.1
S	.0	1.1	.1	4.1	.0	.8	.0	.5	.0	.3	.0	.0	.0	.0	.1	6.8	9.0
SSW	.0	1.4	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	5.0
SW	.0	1.1	.0	1.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	6.1
WSW	.0	1.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	4.5
W	.0	1.9	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	3.7
WNW	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	2.7
NW	.0	.0	.0	.8	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	1.1	10.0
NNW	.0	1.4	.0	1.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	5.7
CALM	.6	44.4													.6	44.4	
TOTAL	.8	60.0	.3	24.7	.0	2.5	.0	2.7	.0	3.3	.0	3.6	.0	3.3	1.3	100	5.9

CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1950-1978

STATION NAME: FCA KALISPELL, MT

CLASS 4 / NIGHT

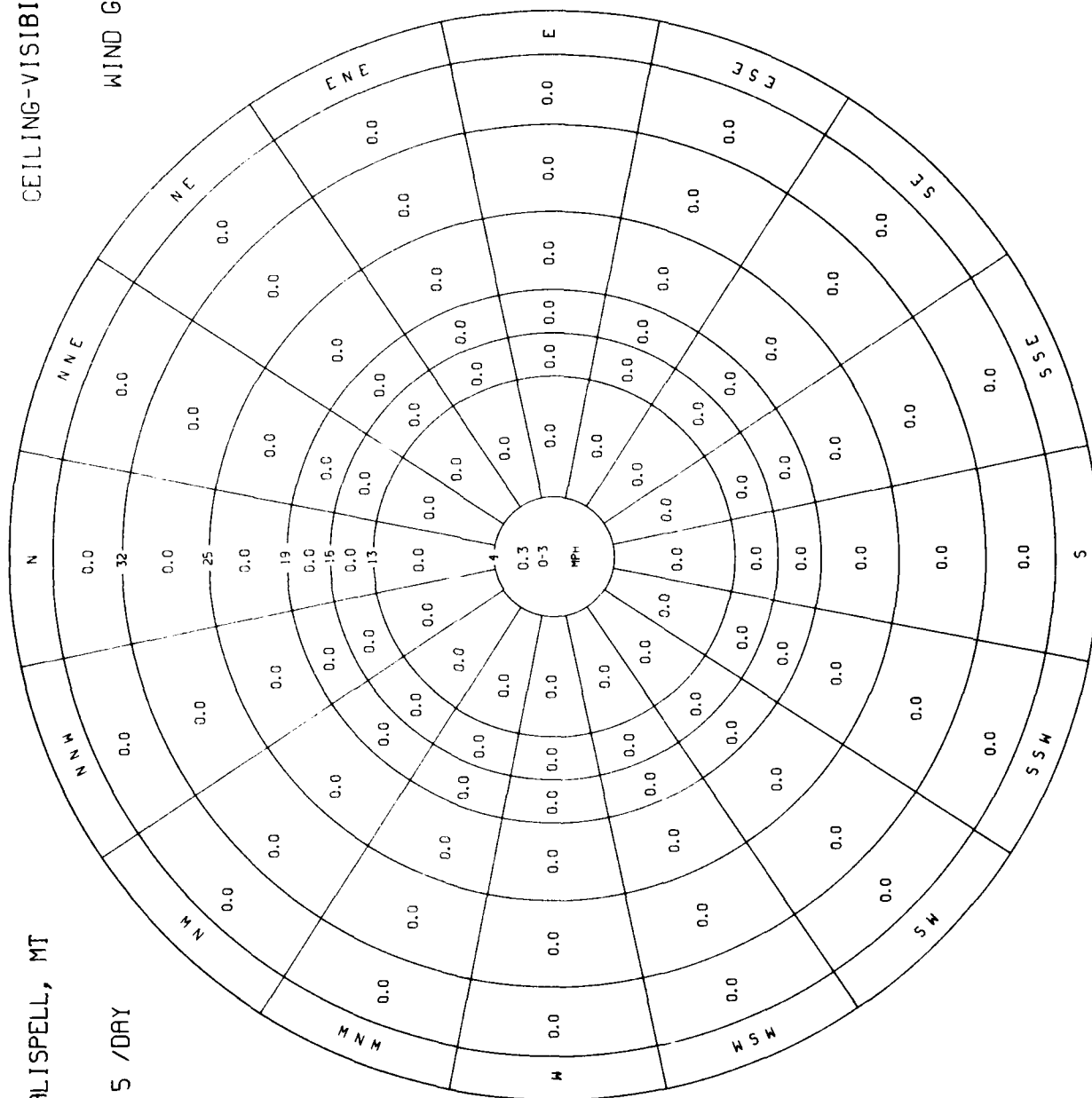
NO. OBS.: 340

STATION NUMBER: 24146

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	2.1	.1	5.0	.0	.0	.0	.6	.0	1.2	.0	.3	.0	.0	.2 9.1
NNE	.0	.6	.0	1.8	.0	.0	.0	.6	.0	1.2	.0	2.9	.0	2.1	.2 9.1
NE	.0	1.2	.0	1.5	.0	.3	.0	.0	.0	.0	.0	.3	.0	.6	.1 3.8
ENE	.0	.9	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0 1.5
E	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
ESE	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
SE	.0	.9	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.8
SSE	.0	.9	.0	2.6	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.1 5.3
S	.0	.6	.0	1.8	.0	.9	.0	.3	.0	.0	.0	.0	.0	.0	.1 3.5
SSW	.0	1.8	.0	1.2	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.1 3.5
SW	.0	.9	.0	2.9	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.1 4.4
WSW	.0	1.2	.1	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 4.4
W	.0	1.2	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 4.1
WNW	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.8
NW	.0	.9	.0	1.2	.0	.6	.0	.0	.0	.0	.0	.3	.0	.0	.0 2.9
NNW	.0	1.5	.1	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 5.0
CALM	.6	37.4													.6 37.4
TOTAL	.9	53.8	.5	30.3	.1	3.5	.0	2.6	.0	2.9	.1	4.1	.0	2.6	1.7 100
															6.2

CEILING-VISIBILITY

WIND GRAPH



FCA KALISPELL, MT

CLASS 5 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FCA PALISPEL, MT

PERIOD: 1950-1978

CLASS 5 / DAY

STATION NUMBER: 24146

NO. OBS.: 123

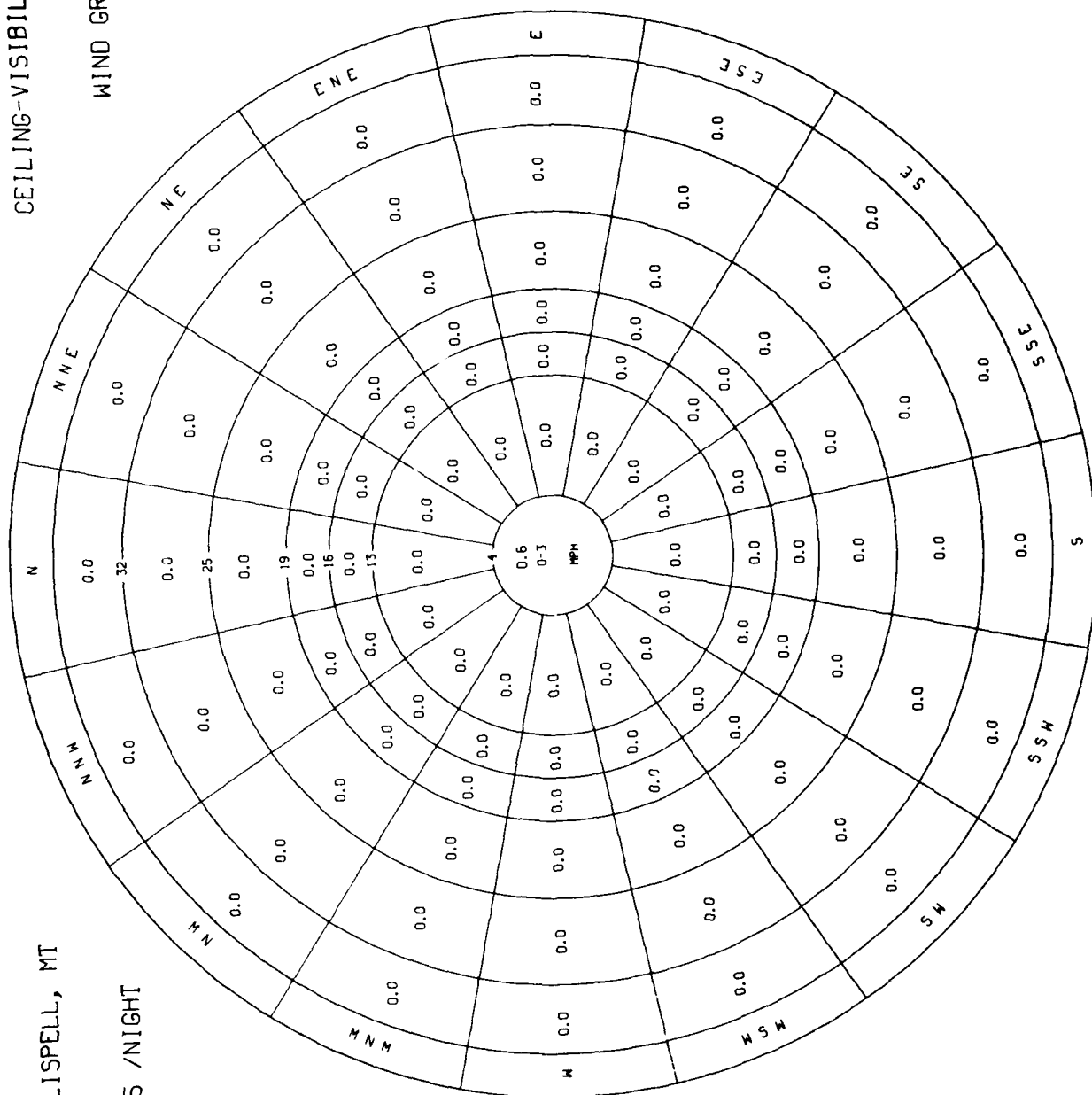
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	4.1	.0	5.7	.0	.0	.0	.0	.0	.8	.0	.0	.0	.8	.0 11.4
NNE	.0	2.4	.0	.8	.0	.0	.0	.0	.0	.8	.0	.8	.0	4.1	.0 8.9
NNE	.0	1.6	.0	1.5	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0 4.9
ENE	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.6
E	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
ESE	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
SE	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.3
SSE	.0	1.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
S	.0	.8	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
SSW	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
SW	.0	.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.3
WSW	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.3
W	.0	1.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
WNW	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
NW	.0	1.6	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.9
NNW	.0	.8	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.1
CALM	.2	42.3													.2 42.3
TOTAL	.3	66.7	.1	24.4	.0	.0	.0	.0	.0	1.6	.0	2.4	.0	4.9	.4 100
															5.2

CEILING-VISIBILITY

WIND GRAPH

FCA KALISPELL, MT

CLASS 5 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FCA KALISPELL, MT

PERIOD: 1950-1978

CLASS 5 / NIGHT

STATION NUMBER: 24146

NO. OBS.: 190

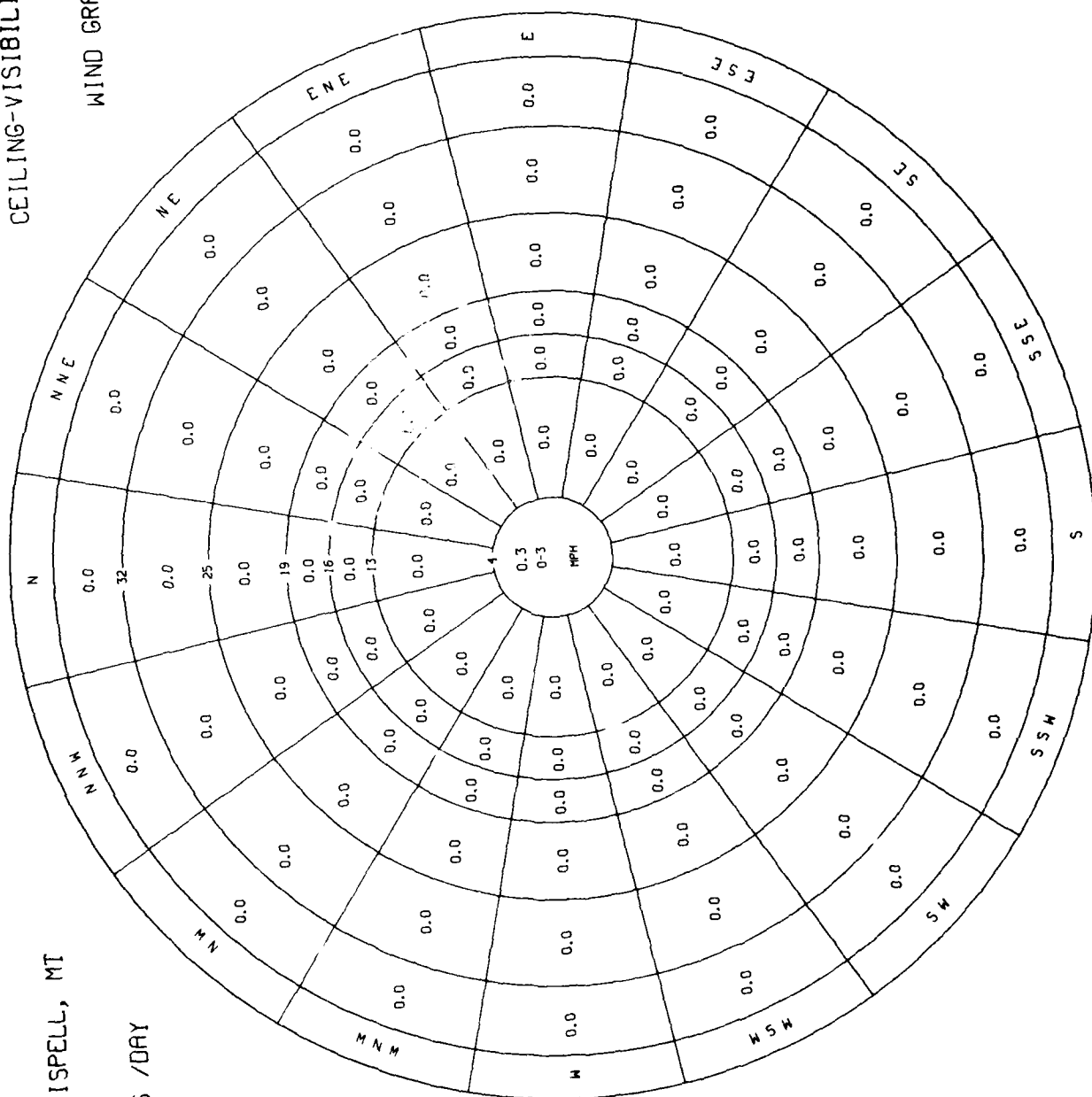
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.6	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	10.5
NNE	.0	2.1	.0	2.1	.0	.0	.0	.0	.0	1.1	.0	1.1	.0	4.7	26.4
NE	.0	1.1	.0	1.6	.0	.0	.0	.0	.0	.5	.0	2.6	.0	.0	16.2
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	1.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3
SE	.0	1.6	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0
SSE	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0
S	.0	1.1	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6
SW	.0	1.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	1.1	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0
W	.0	1.6	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	5.0
WNW	.0	1.1	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0
NW	.0	.5	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6
NNW	.0	.5	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3
CALC	.5	48.9													5.0
TOTAL	.6	53.7	.2	24.2	.0	.0	.0	.0	.0	1.6	.0	4.2	.1	6.3	6.1

CEILING-VISIBILITY

WIND GRAPH

FCA KALISPELL, MT

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FCA KALISPELL, MT

PERIOD: 1950-1978

CLASS 6 / DAY

NO. OBS.: 109

STATION NUMBER: 24146

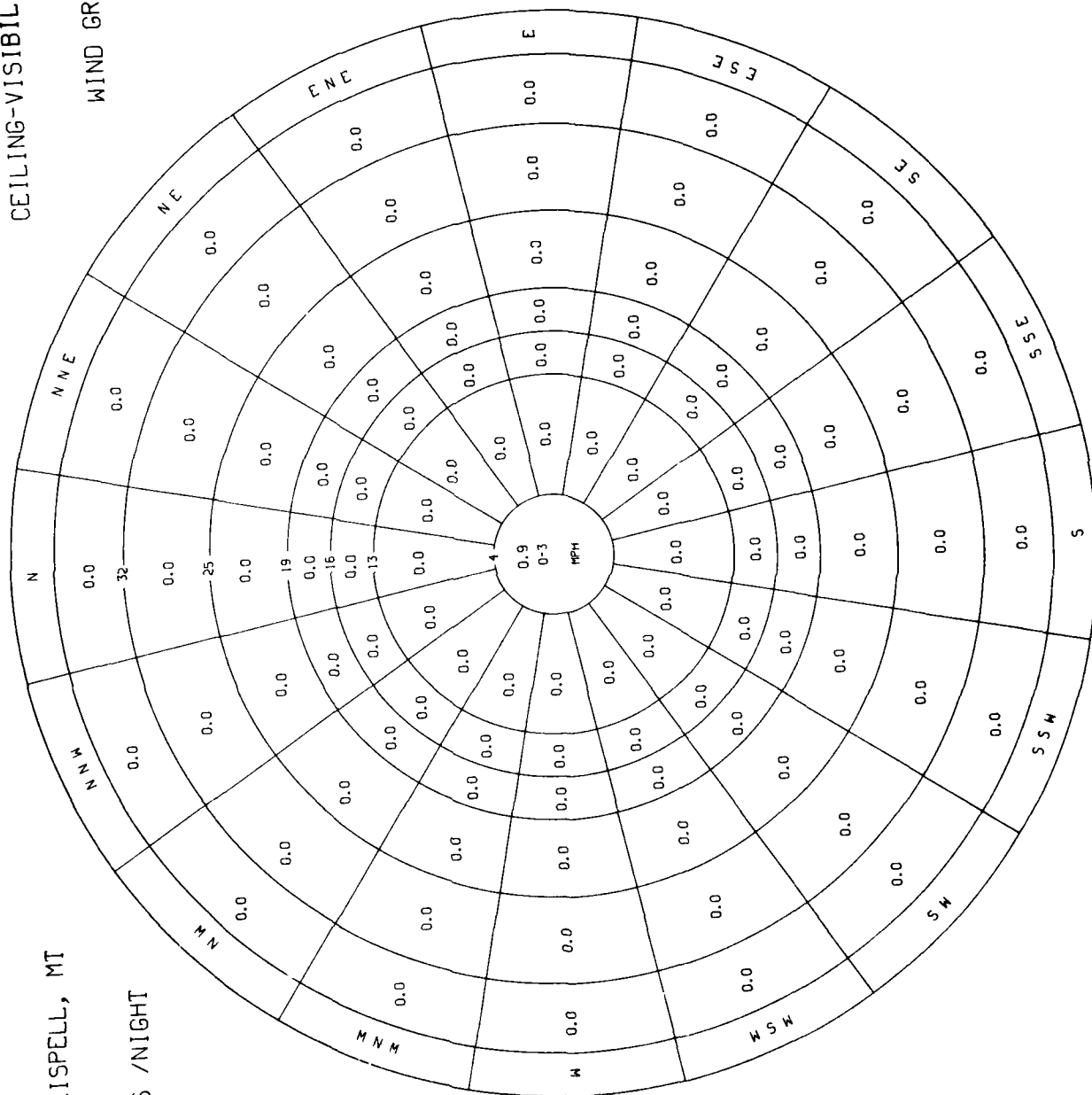
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			
N	.0	.9	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	4.6	13.6
NNE	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	.0	4.6	34.8
NE	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	2.8	.0	5.5	29.3
ENE	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	5.0
E	.0	1.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	3.3
ESE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	5.0
SSE	.0	1.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	3.3
S	.0	1.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	3.7
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	1.8	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	4.0
WSW	.0	1.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	3.7
W	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	6.5
WNW	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	2.7
NW	.0	1.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	3.7
NNW	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	3.0
CALM	.2	56.9													.2	56.9	
TOTAL	.3	76.1	.1	14.7	.0	.0	.0	.0	.0	.0	.0	1.8	.0	7.3	.4	100	4.9

CEILING-VISIBILITY

WIND GRAPH

FCA KALISPELL, MT

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FCA KALISPELL, MT

PERIOD: 1950-1978

CLASS 6 / NIGHT

STATION NUMBER: 24146

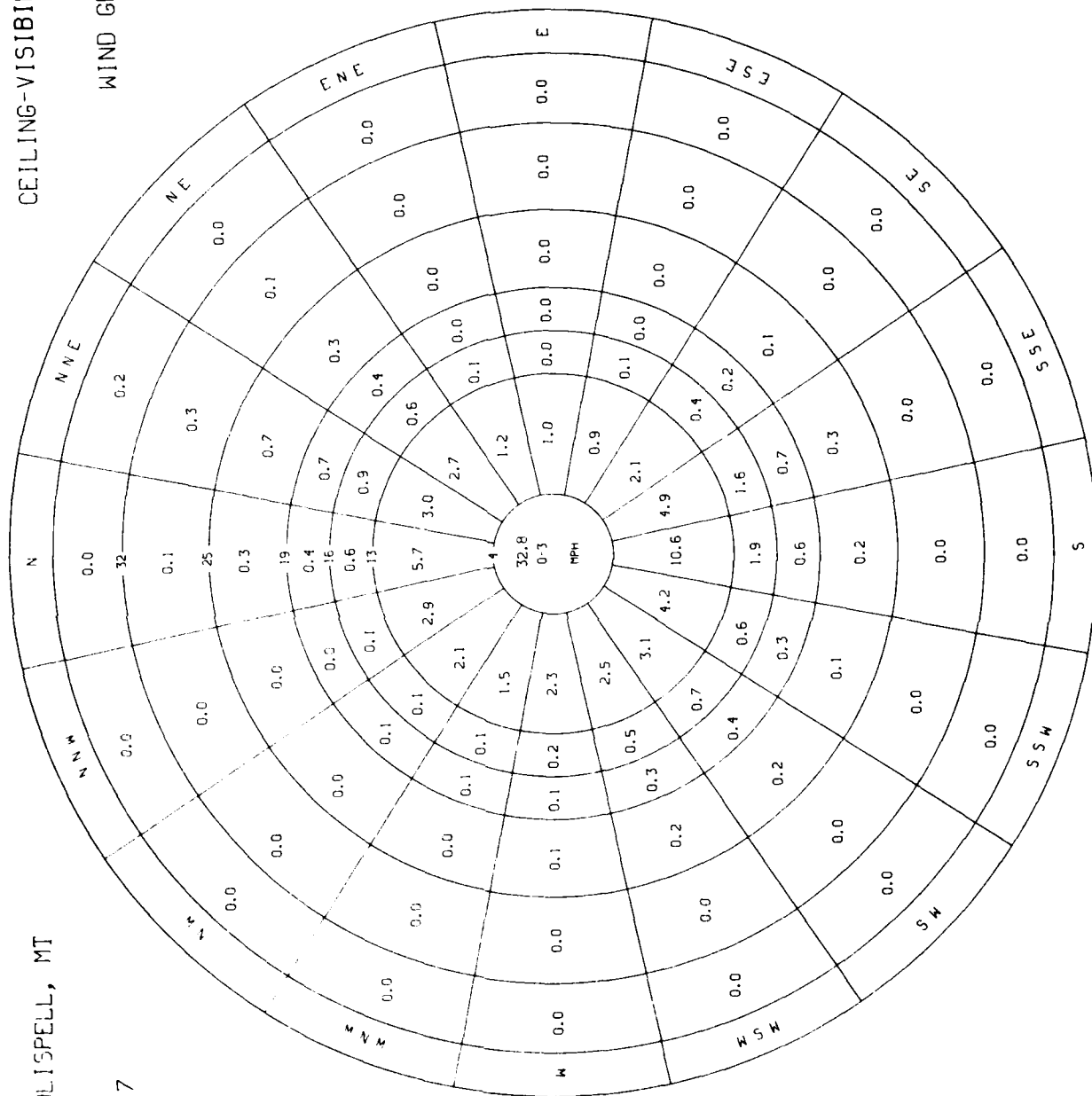
NO. OBS.: 246

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	2.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.1	6.1	7.1
NNE	.0	.4	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	.1	5.7	31.2
NE	.0	2.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	4.1	5.2
ENE	.0	.8	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	4.6
E	.0	1.2	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	4.4
ESE	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	3.7
SE	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	5.7
SSE	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	4.2
S	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	4.3
SSW	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	2.7
SW	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	4.0
WSW	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	4.0
W	.0	2.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	3.9
WNW	.0	1.2	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	4.2
NW	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	3.7
NNW	.0	1.2	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	4.6
CALM	.7	55.7														.7	55.7	
TOTAL	.9	76.0	.2	19.5	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	3.7	1.2	100	3.7

CEILING-VISIBILITY WIND GRAPH

FOR KALISPELL, MT

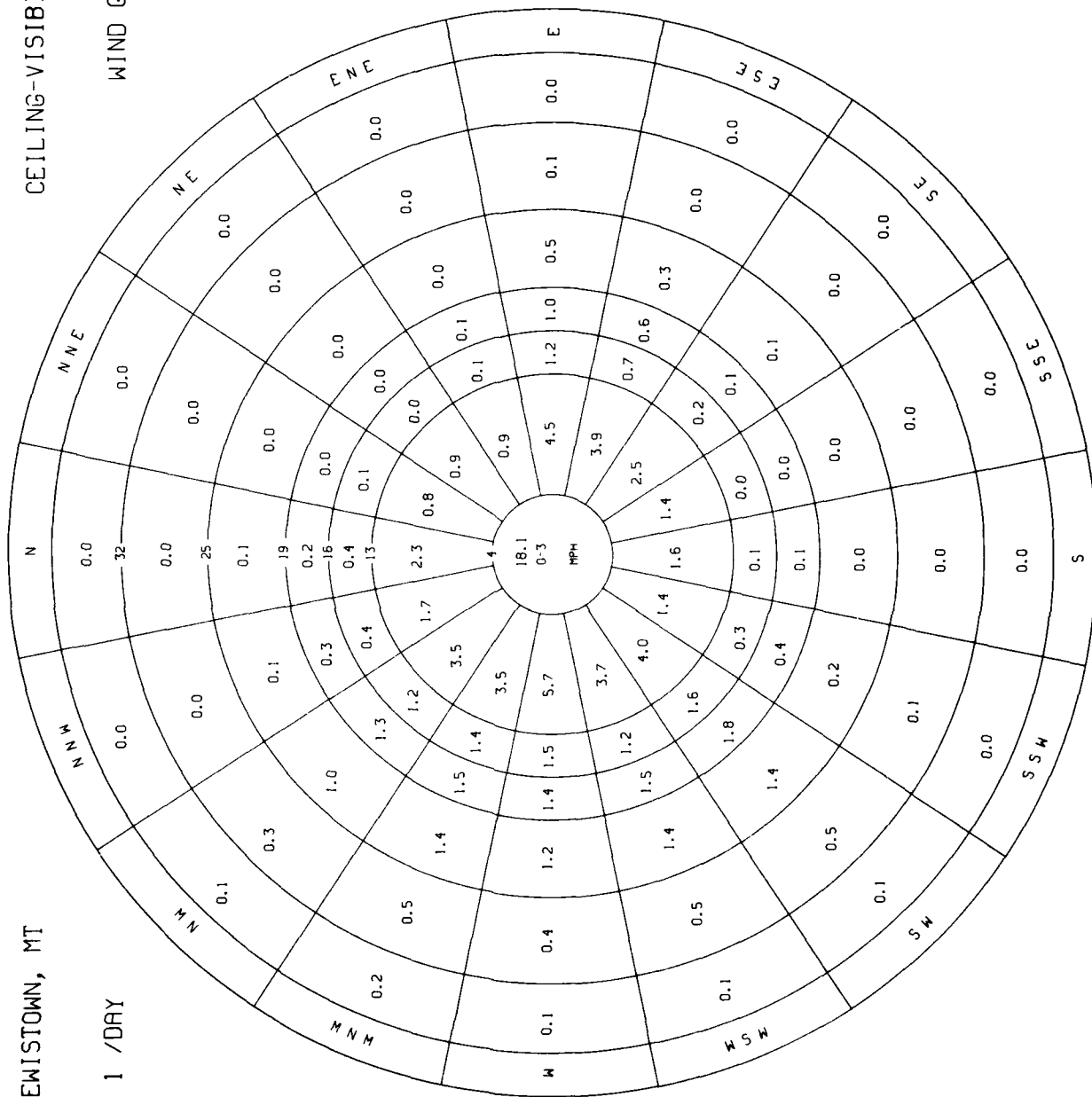
CLASS 7



CEILING-VISIBILITY
WIND GRAPH

LWT LEWISTOWN, MT

CLASS 1 / DRY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LWT LEWISTOWN, MT

PERIOD: 1948-1978

CLASS 1 / DAY

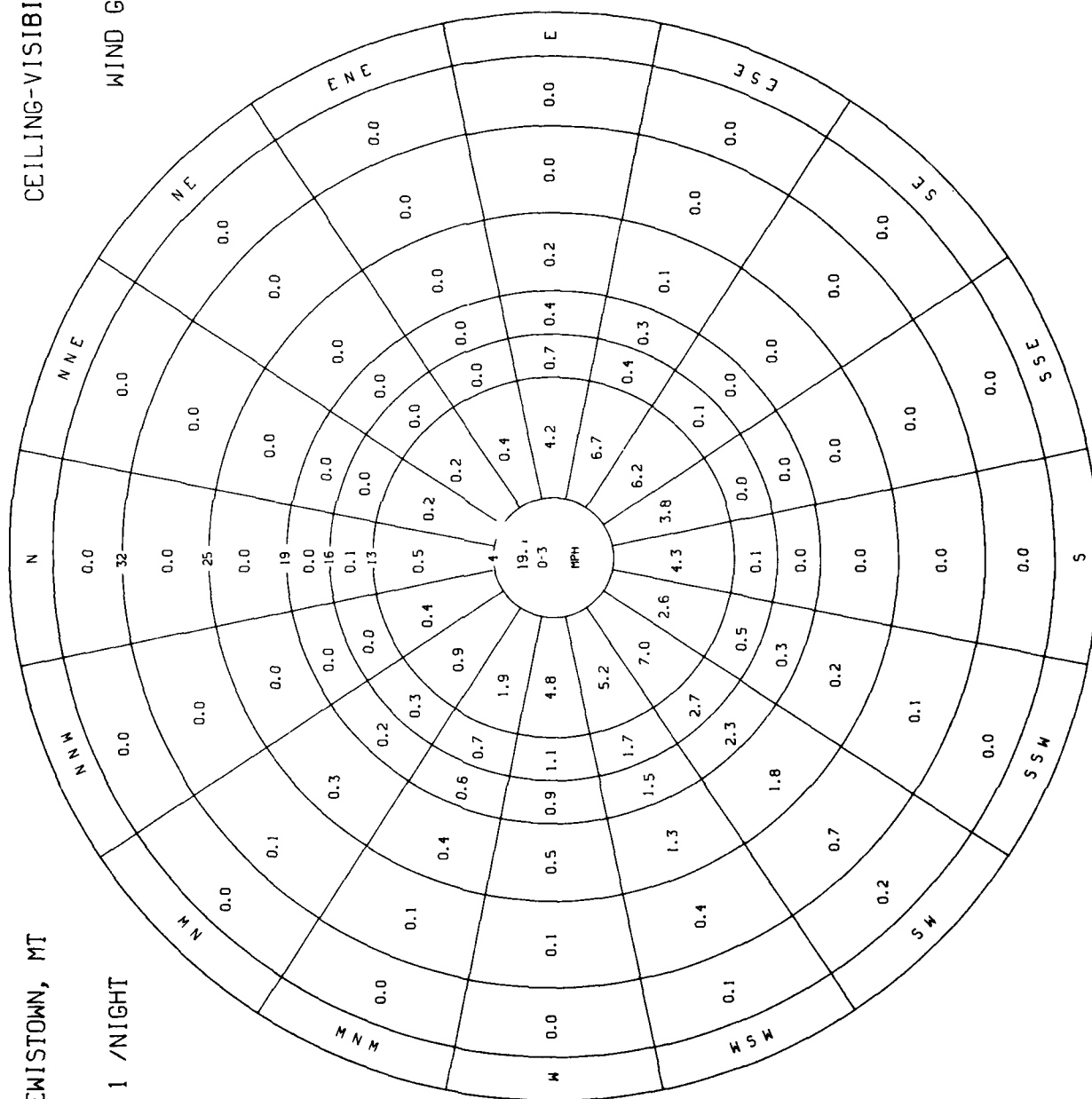
STATION NUMBER: 24036

NO. OBS.: 49365

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.7	.7	2.3	2.5	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	3.6	3.9	8.2
NNE	.3	.3	.8	.9	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	1.3	1.4	7.3
NE	.4	.5	.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.5	5.9
ENE	.2	.2	.9	1.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	1.3	1.4	8.0
E	1.2	1.3	4.5	4.9	1.2	1.3	1.0	1.1	.5	.5	.1	.1	.0	.0	8.4	9.1	10.1
ESE	.8	.9	3.9	4.3	.7	.7	.6	.6	.3	.4	.0	.0	.0	.0	6.3	6.9	9.3
SE	1.6	1.8	2.5	2.8	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	4.5	4.9	5.8
SSE	.5	.6	1.4	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	2.2	6.1
S	.7	.7	1.6	1.8	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	2.5	2.7	6.4
SSW	.3	.4	1.4	1.5	.3	.4	.4	.4	.2	.2	.1	.1	.0	.0	2.7	2.9	11.4
SW	.9	1.0	4.0	4.4	1.6	1.7	1.8	2.0	1.4	1.5	.5	.6	.1	.1	10.4	11.3	13.5
WSW	.4	.4	3.7	4.0	1.2	1.3	1.5	1.6	1.4	1.5	.5	.5	.1	.1	8.7	9.5	13.8
W	.8	.9	5.7	6.2	1.5	1.6	.4	1.6	1.2	1.3	.4	.4	.1	.2	11.1	12.1	12.3
WNW	.3	.3	3.5	3.8	1.4	1.5	.5	1.7	1.4	1.5	.5	.6	.2	.2	8.8	9.6	14.4
NW	.7	.8	3.5	3.8	1.2	1.3	1.3	1.5	1.0	1.1	.3	.3	.1	.1	8.1	8.8	12.6
NNW	.3	.3	1.7	1.8	.4	.4	.3	.4	.1	.2	.0	.0	.0	.0	2.8	3.1	10.2
CALM	7.9	8.6													7.9	8.6	
TOTAL	18.1	19.7	42.3	46.1	10.3	11.2	11	11.4	7.6	8.3	2.4	2.7	.6	.7	91.8	100	10.2

LWT LEWISTOWN, MT

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LWT LEWISTOWN, MT

PERIOD: 1948-1978

CLASS 1 / NIGHT

STATION NUMBER: 24036

NO. OBS.: 33303

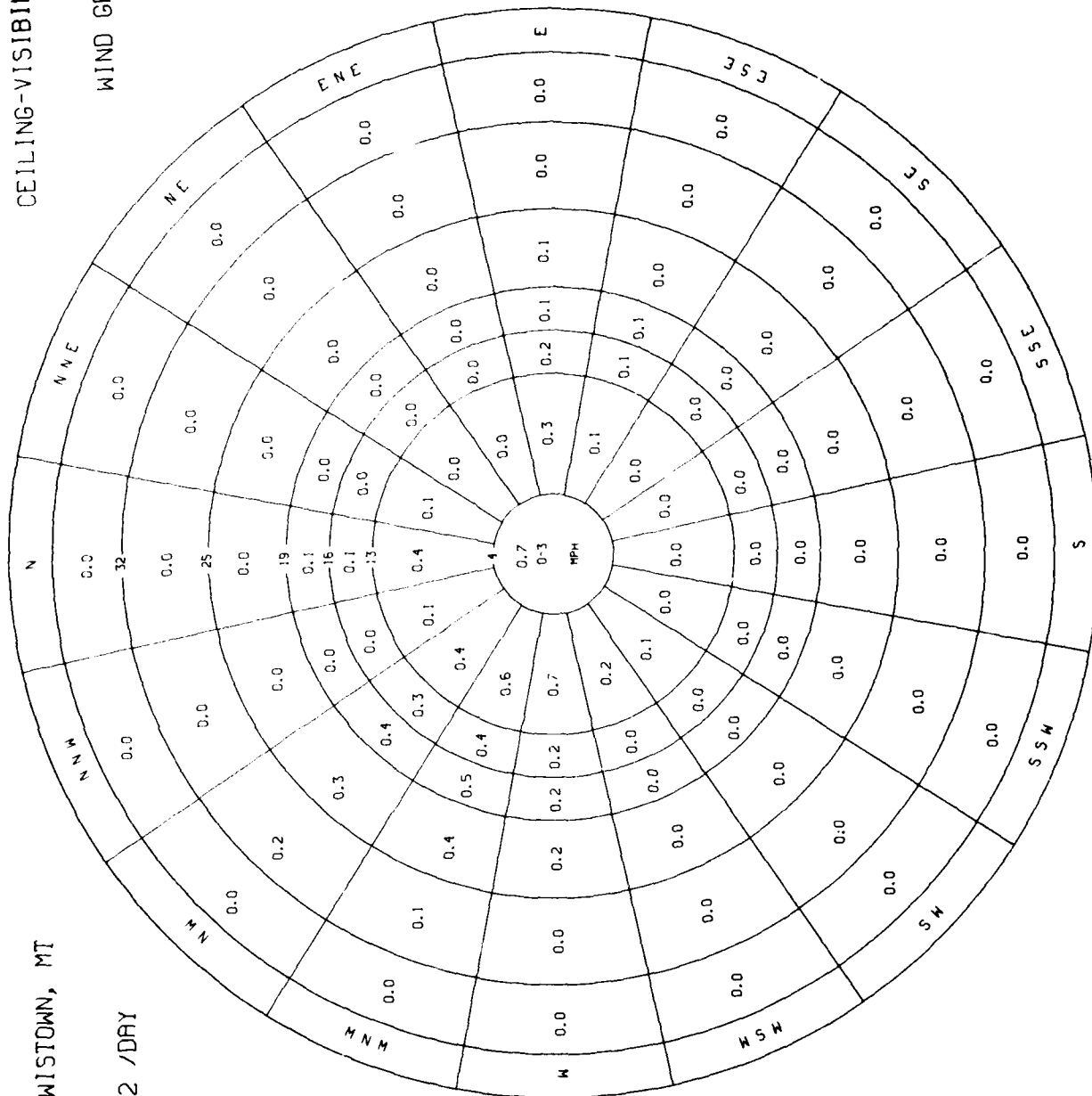
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D		
N	.3	.3	.5	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.0	6.9
NNE	.1	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	6.6
NE	.2	.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.5	5.1
ENE	.1	.1	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	6.5
E	1.0	1.0	4.2	4.7	.7	.8	.4	.5	.2	.2	.0	.0	.0	.0	.0	6.5	7.2	8.8
ESE	1.5	1.7	6.7	7.3	.4	.5	.3	.3	.1	.1	.0	.0	.0	.0	.0	9.0	9.9	7.5
SE	3.6	4.0	6.2	6.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	11.0	5.2
SSE	1.2	1.4	3.8	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	5.6	5.7
S	1.2	1.3	4.3	4.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	6.2	6.1
SSW	.6	.6	2.6	2.9	.5	.5	.3	.4	.2	.2	.1	.1	.0	.0	.0	4.2	4.7	9.8
SW	1.0	1.1	7.0	7.7	2.7	2.9	2.3	2.5	1.8	1.9	.7	.7	.2	.2	.2	15.5	17.1	13.1
WSW	.4	.4	5.2	5.8	1.7	1.9	1.5	1.7	1.3	1.4	.4	.5	.1	.1	.1	10.7	11.8	13.2
W	.5	.6	4.8	5.3	1.1	1.2	.9	.9	.5	.5	.1	.2	.0	.0	.0	7.9	8.7	11.0
WNW	.3	.3	1.9	2.1	.7	.8	.6	.7	.4	.5	.1	.1	.0	.0	.0	4.1	4.5	12.3
NW	.3	.4	.9	1.0	.3	.3	.2	.3	.3	.3	.1	.1	.0	.0	.0	2.2	2.4	11.8
NNW	.1	.1	.4	.4	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.6	.7	8.8
CALM	7.0	7.7														7.0	7.7	
TOTAL	19.4	21.4	49.4	54.4	8.4	9.3	6.8	7.5	4.9	5.3	1.5	1.7	.4	.4	.4	90.8	100	8.9

CEILING-VISIBILITY

WIND GRAPH

LWT LEWISTOWN, MT

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: LWT LEWISTOWN, MT

CLASS 2 / DAY

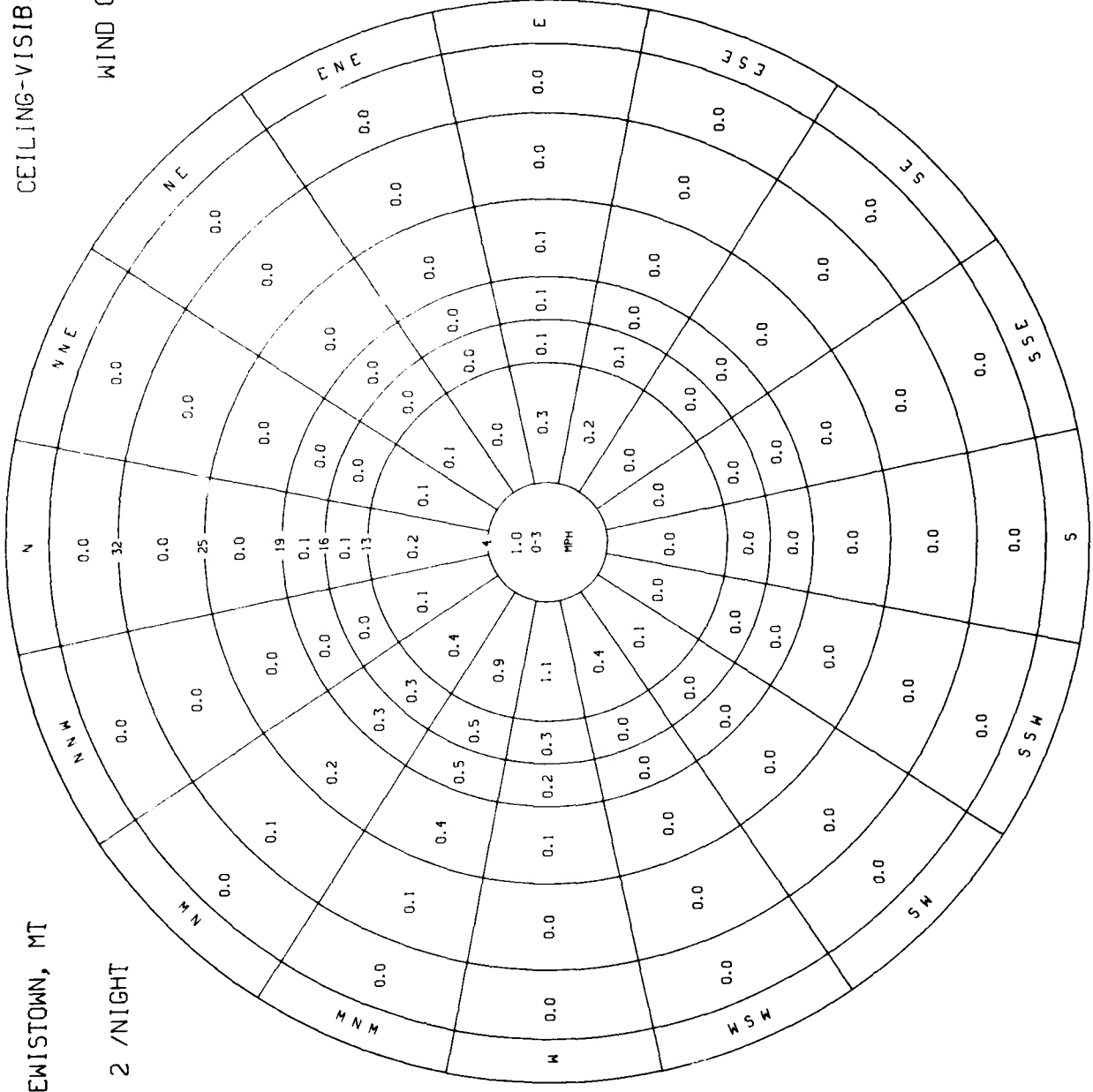
NO. OBS.: 4432

STATION NUMBER: 24036

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.4	.4	4.3	.1	1.0	.1	1.0	.0	.5	.0	.0	.0	.0	.6	7.3	11.3
NNE	.0	.1	.1	.9	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.1	1.4	10.7
NE	.0	.3	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.7	7.2
ENE	.0	.1	.0	.5	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.1	1.0	10.5
E	.0	.5	.3	3.8	.2	1.9	.1	1.4	.1	1.1	.0	.1	.0	.0	.7	8.8	12.7
ESE	.0	.3	.1	1.8	.1	.8	.1	.8	.0	.3	.0	.0	.0	.0	.3	4.0	12.0
SE	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	6.5
SSE	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	7.1
S	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	6.2
SSW	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	5.6
SW	.0	.2	.1	1.3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	1.6	8.7
WSW	.0	.2	.2	2.4	.0	.4	.0	.2	.0	.3	.0	.0	.0	.0	.3	3.6	10.8
W	.1	.7	.7	8.1	.2	2.7	.2	2.1	.2	1.9	.0	.6	.0	.2	1.3	16.2	12.9
WNW	.0	.5	.6	7.5	.4	5.4	.5	6.1	.4	5.2	.1	1.5	.0	.5	2.2	26.7	15.8
NW	.1	.7	.4	5.2	.3	3.3	.4	4.6	.3	4.1	.2	1.9	.0	.5	1.7	20.2	16.2
NNW	.0	.3	.1	1.5	.0	.5	.0	.4	.0	.3	.0	.1	.0	.1	.3	3.1	12.3
CALM	.3	3.8													.3	3.8	
TOTAL	.7	8.5	3.2	38.6	1.3	16.3	1.4	17.0	1.2	14.0	.4	4.4	.1	1.3	8.2	100	13.3

CEILING-VISIBILITY

WIND GRAPH



LWT LEWISTOWN, MT

CLASS 2 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LWT LEWISTOWN, MT

PERIOD: 1948-1978

CLASS 2 / NIGHT

STATION NUMBER: 24036

NO. OBS.: 3378

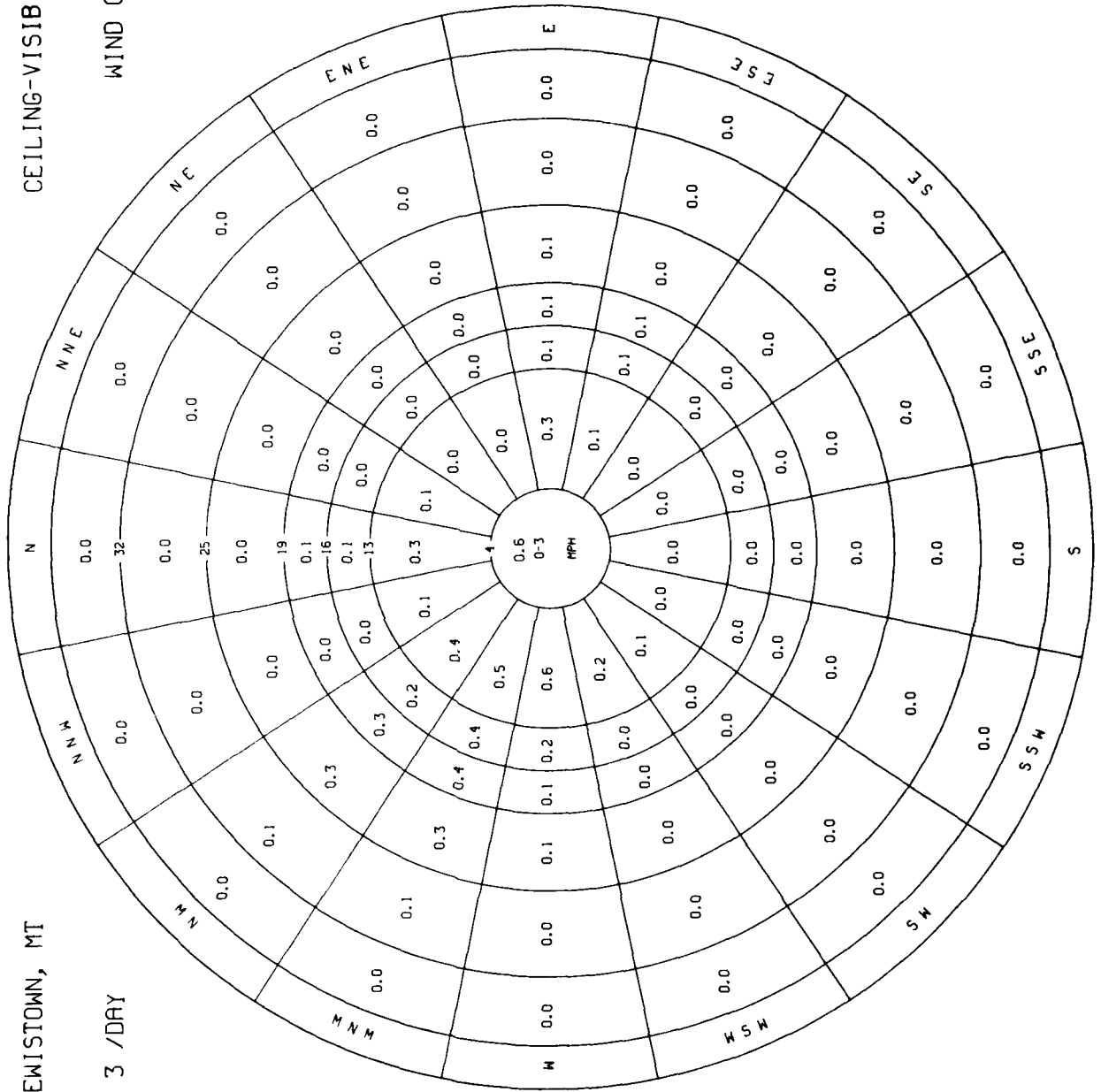
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.5	.2	2.7	.1	.8	.1	.7	.0	.2	.0	.0	.0	.0	.4	4.9	10.3
NNE	.0	.2	.1	.7	.0	.2	.0	.2	.0	.1	.0	.0	.0	.0	.1	1.4	10.0
NE	.0	.1	.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	6.1
ENE	.0	.1	.0	.4	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.1	.8	10.1
E	.0	.5	.3	3.8	.1	1.5	.1	1.0	.1	.6	.0	.1	.0	.1	.7	7.6	12.1
ESE	.0	.3	.2	2.7	.1	1.1	.0	.1	.0	.4	.0	.0	.0	.0	.4	4.6	10.7
SE	.0	.4	.0	.5	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	1.1	6.4
SSE	.0	.1	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	8.9
S	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	4.4
SSW	.0	.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	7.9
SW	.1	.7	.1	1.6	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.2	2.6	7.8
WSW	.1	.7	.4	3.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.5	5.2	8.0
W	.1	1.1	1.1	12.0	.3	3.1	.2	2.2	.1	1.4	.0	.3	.0	.2	1.9	20.2	11.5
WNW	.0	.5	.9	9.2	.5	5.1	.5	5.9	.4	4.5	.1	1.1	.0	.3	2.4	26.6	14.9
NW	.0	.5	.4	4.5	.3	2.7	.3	3.5	.2	2.4	.1	1.0	.0	.2	1.4	14.9	15.0
NNW	.0	.3	.1	1.5	.0	.3	.0	.3	.0	.2	.0	.1	.0	.0	.3	2.7	11.3
CALM	.5	4.9													.5	4.9	
TOTAL	1.0	11.2	4.2	45.3	1.5	16.0	1.3	14.2	.9	9.9	.2	2.7	.1	.7	9.2	100	11.8

CEILING-VISIBILITY

WIND GRAPH

LWT LEWISTOWN, MT

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LWT LEWISTOWN, MT

PERIOD: 1948-1978

CLASS 3 / DAY

STATION NUMBER: 24036

NO. OBS.: 3581

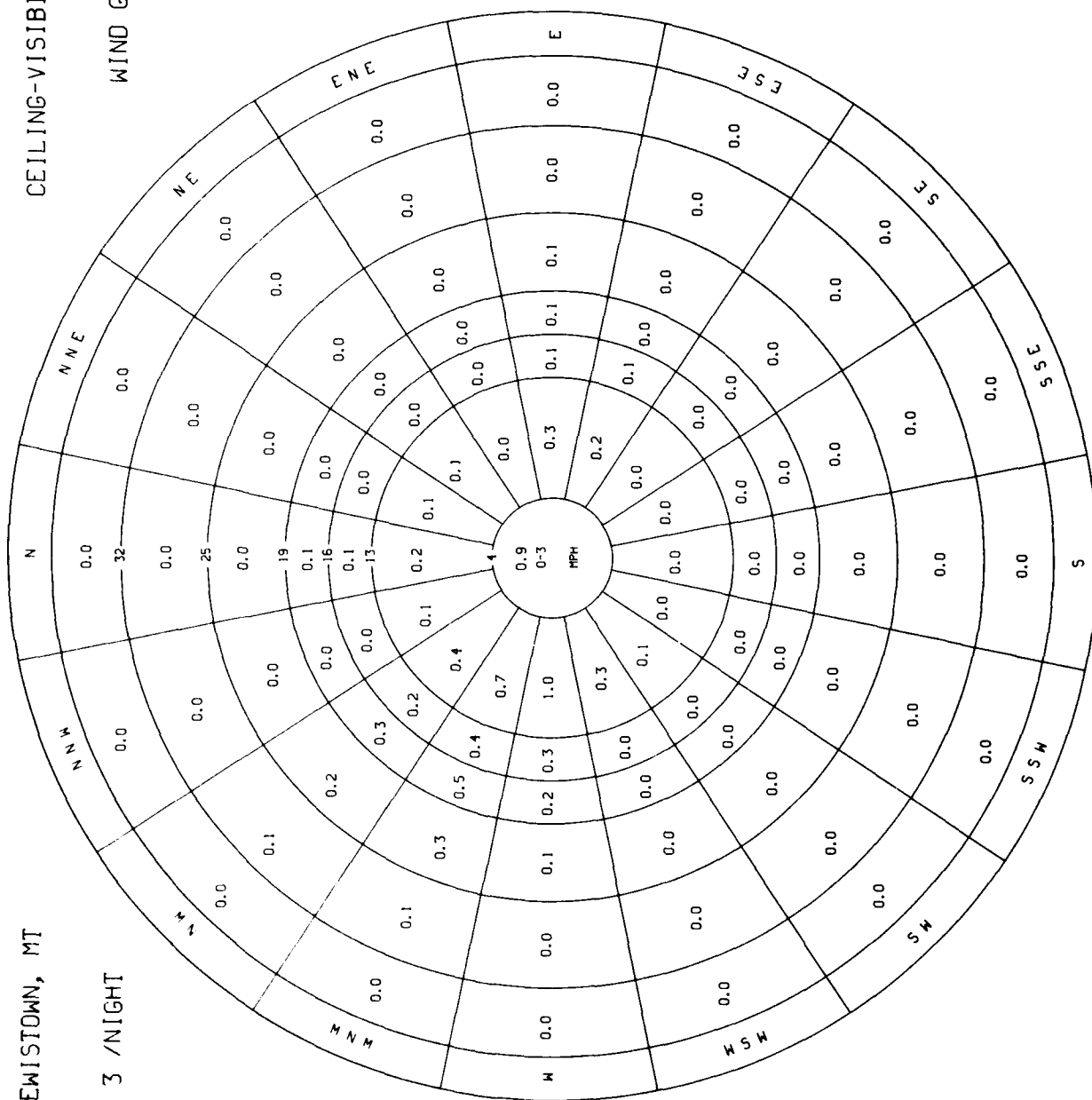
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.5	.3	4.6	.1	1.1	.1	.9	.0	.3	.0	.0	.0	.0	.5	7.4	10.7
NNE	.0	.1	.1	.9	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.1	1.5	10.5
NE	.0	.4	.0	.3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	.8	7.1
ENE	.0	.1	.0	.5	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.1	1.0	10.5
E	.0	.6	.3	4.1	.1	2.2	.1	1.5	.1	1.2	.0	.1	.0	.0	.6	9.7	12.8
ESE	.0	.3	.1	2.0	.1	.9	.1	.9	.0	.4	.0	.0	.0	.0	.3	4.6	12.1
SE	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	6.7
SSE	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	7.3
S	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	6.2
SSW	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	6.4
SW	.0	.2	.1	1.4	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	1.8	8.2
WSW	.0	.2	.2	2.6	.0	.4	.0	.2	.0	.3	.0	.0	.0	.0	.3	3.8	10.3
W	.0	.6	.6	8.7	.2	2.6	.1	2.0	.1	1.8	.0	.5	.0	.1	1.1	16.3	12.6
WNW	.0	.5	.5	7.8	.4	5.6	.4	5.8	.3	4.0	.1	.8	.0	.2	1.6	24.7	14.8
NW	.0	.5	.4	5.6	.2	3.7	.3	4.5	.3	3.8	.1	1.2	.0	.1	1.3	19.4	15.3
NNW	.0	.3	.1	1.6	.0	.5	.0	.4	.0	.3	.0	.1	.0	.0	.2	3.2	11.5
CALM	.3	4.1													.3	4.1	
TOTAL	.6	9.0	2.8	41.3	1.2	17.4	1.1	16.7	.8	12.3	.2	2.8	.0	.5	6.7	100	12.6

CEILING-VISIBILITY

WIND GRAPH

LWT LEWISTOWN, MT

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LWT LEWISTOWN, MT

PERIOD: 1948-1978

CLASS 3 / NIGHT

STATION NUMBER: 24036

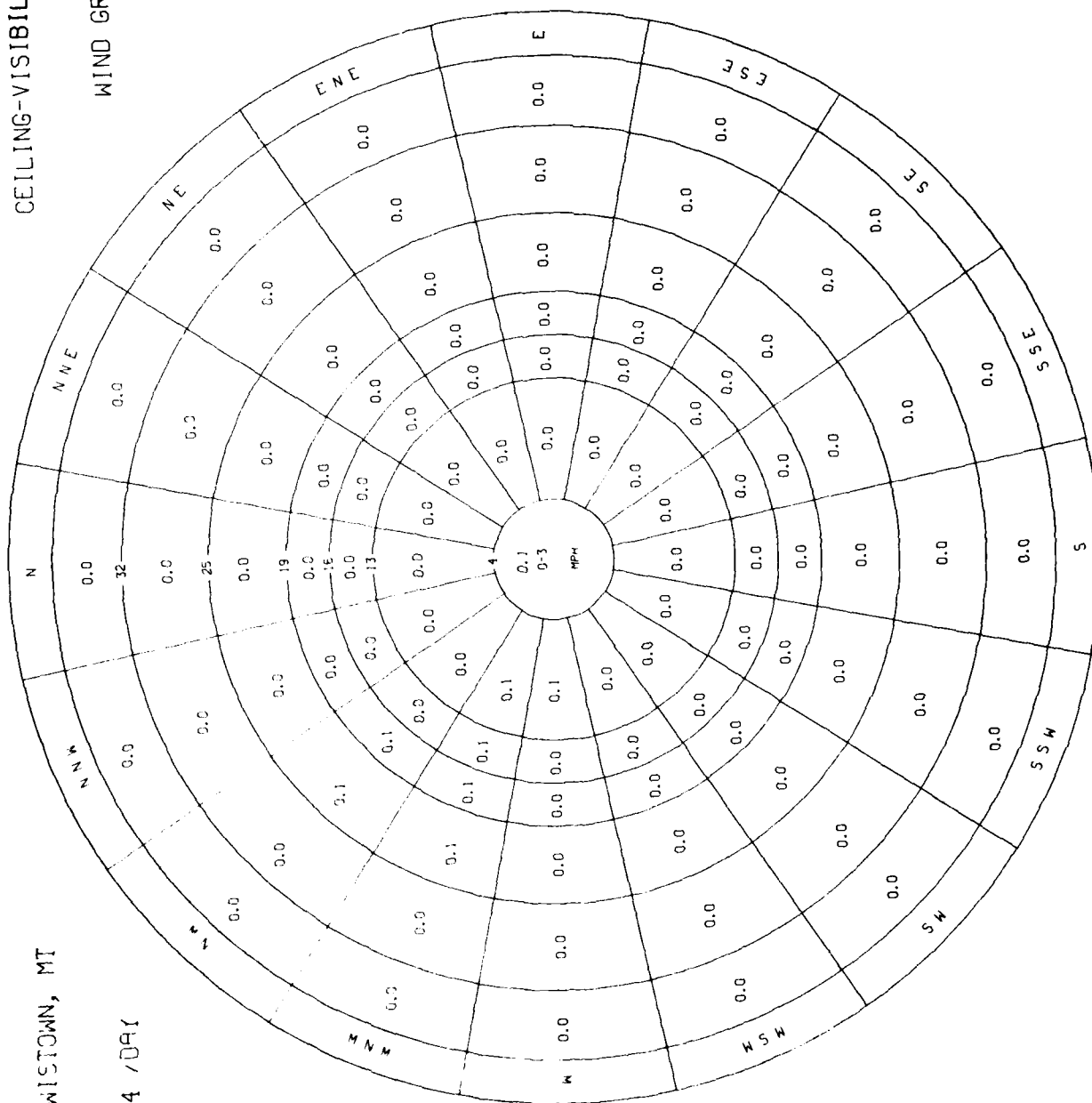
NO. OBS.: 2930

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.5	.2	2.7	.1	.8	.1	.7	.0	.2	.0	.0	.0	.0	.4 4.9
NNE	.0	.3	.1	.7	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.1 1.5
NE	.0	.2	.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 .9
ENE	.0	.1	.0	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1 .9
E	.0	.4	.3	4.0	.1	1.8	.1	1.2	.1	.7	.0	.2	.0	.1	.7 8.4
ESE	.0	.3	.2	2.7	.1	1.2	.0	.1	.0	.4	.0	.0	.0	.0	.4 4.8
SE	.0	.4	.0	.5	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1 1.2
SSE	.0	.1	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0 .5
S	.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .5
SSW	.0	.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 .7
SW	.1	.7	.1	1.7	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.2 2.7
WSW	.1	.8	.3	4.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.4 5.5
W	.1	1.1	1.0	12.4	.3	3.2	.2	2.2	.1	1.4	.0	.3	.0	.1	1.6 20.6
WNW	.0	.5	.7	9.0	.4	4.9	.5	5.7	.3	3.7	.1	.7	.0	.1	2.0 24.6
NW	.0	.5	.4	4.7	.2	2.7	.3	3.5	.2	2.2	.1	.7	.0	.0	1.2 14.4
NNW	.0	.3	.1	1.7	.0	.3	.0	.3	.0	.2	.0	.1	.0	.0	.2 2.9
CALM	.4	5.1													.4 5.1
TOTAL	.9	11.7	3.7	46.6	1.3	16.3	1.1	14.2	.7	8.9	.2	2.0	.0	.3	8.0 100
															11.5

WIND GRAPH

LWT LEWISTOWN, MT

CLASS 4 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LWT LEWISTOWN, MT

PERIOD: 1948-1978

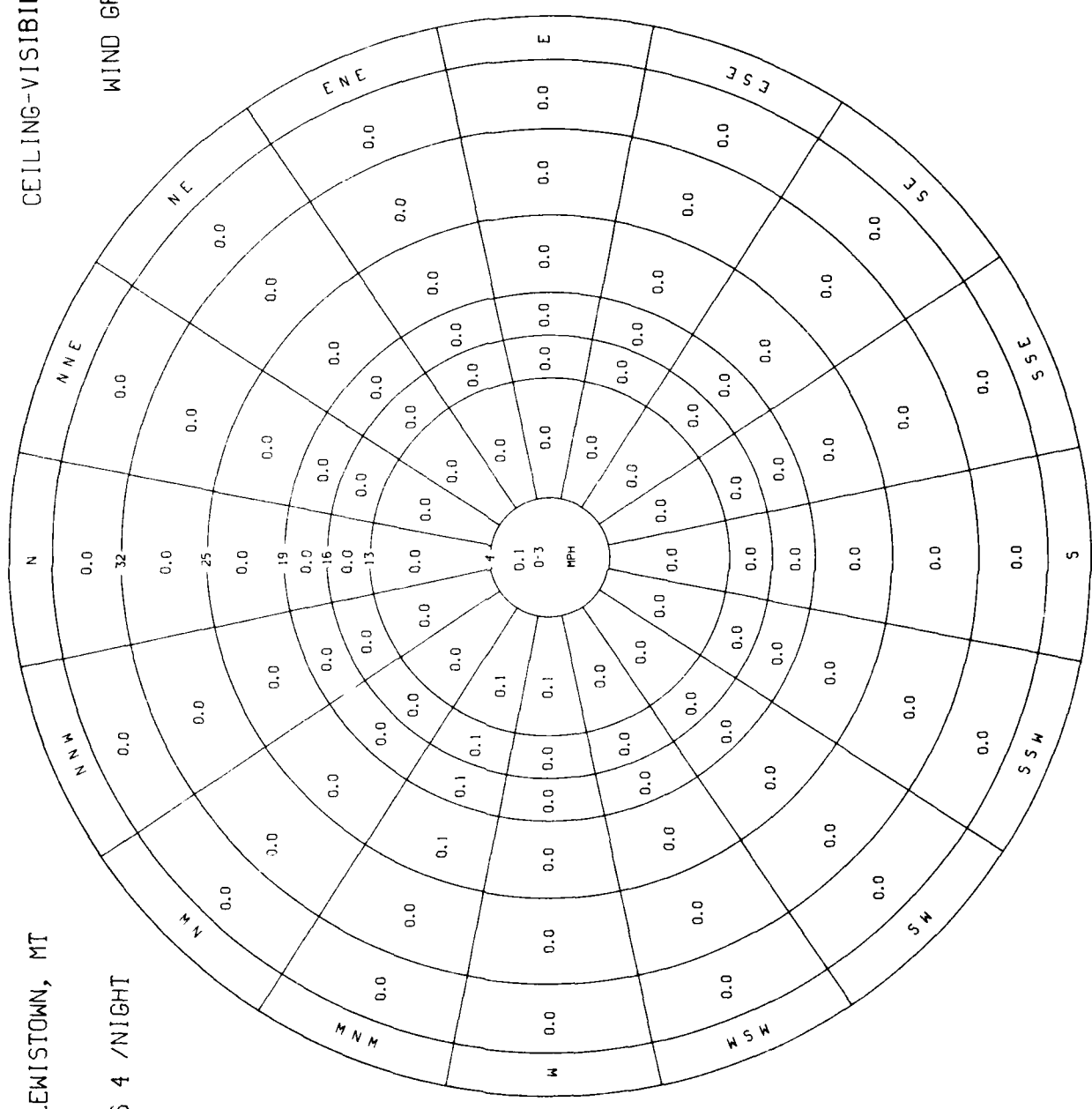
CLASS 4 / DAY

STATION NUMBER: 24036

NO. OBS.: 660

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	2.7	.0	.6	.0	1.8	.0	.9	.0	.0	.0	.0	.1 6.1
NNE	.0	.2	.0	.6	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0 1.2
NE	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .2
ENE	.0	.0	.0	.8	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0 1.1
E	.0	.3	.0	3.2	.0	.3	.0	.8	.0	.9	.0	.2	.0	.0	.1 5.6
ESE	.0	.3	.0	.8	.0	.3	.0	.0	.0	.2	.0	.0	.0	.0	.0 1.5
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
SSW	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .6
SW	.0	.0	.0	.8	.0	.0	.0	.2	.0	.3	.0	.0	.0	.0	.0 1.2
WSW	.0	.3	.0	1.5	.0	.5	.0	.0	.0	.6	.0	.0	.0	.0	.0 2.9
W	.0	.6	.1	5.3	.0	3.0	.0	2.9	.0	2.1	.0	.9	.0	.2	.2 15.0
WNW	.0	.3	.1	6.4	.1	5.3	.1	9.4	.1	9.8	.0	3.5	.0	.9	.4 35.6
NW	.0	1.4	.0	3.8	.0	2.0	.1	5.8	.1	5.3	.0	3.8	.0	1.4	.3 23.3
NNW	.0	.2	.0	1.5	.0	.3	.0	.5	.0	.3	.0	.2	.0	.5	.0 3.3
CALM	.0	2.4													.0 2.4
TOTAL	.1	6.4	.3	27.6	.2	12.6	.3	21.7	.3	20.5	.1	8.5	.0	2.9	1.2 100
															15.7

LWT LEWISTOWN, MT
 CLASS 4 /NIGHT
 CEILING-VISIBILITY
 WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LWT LEWISTOWN, MT

PERIOD: 1948-1978

CLASS 4 / NIGHT

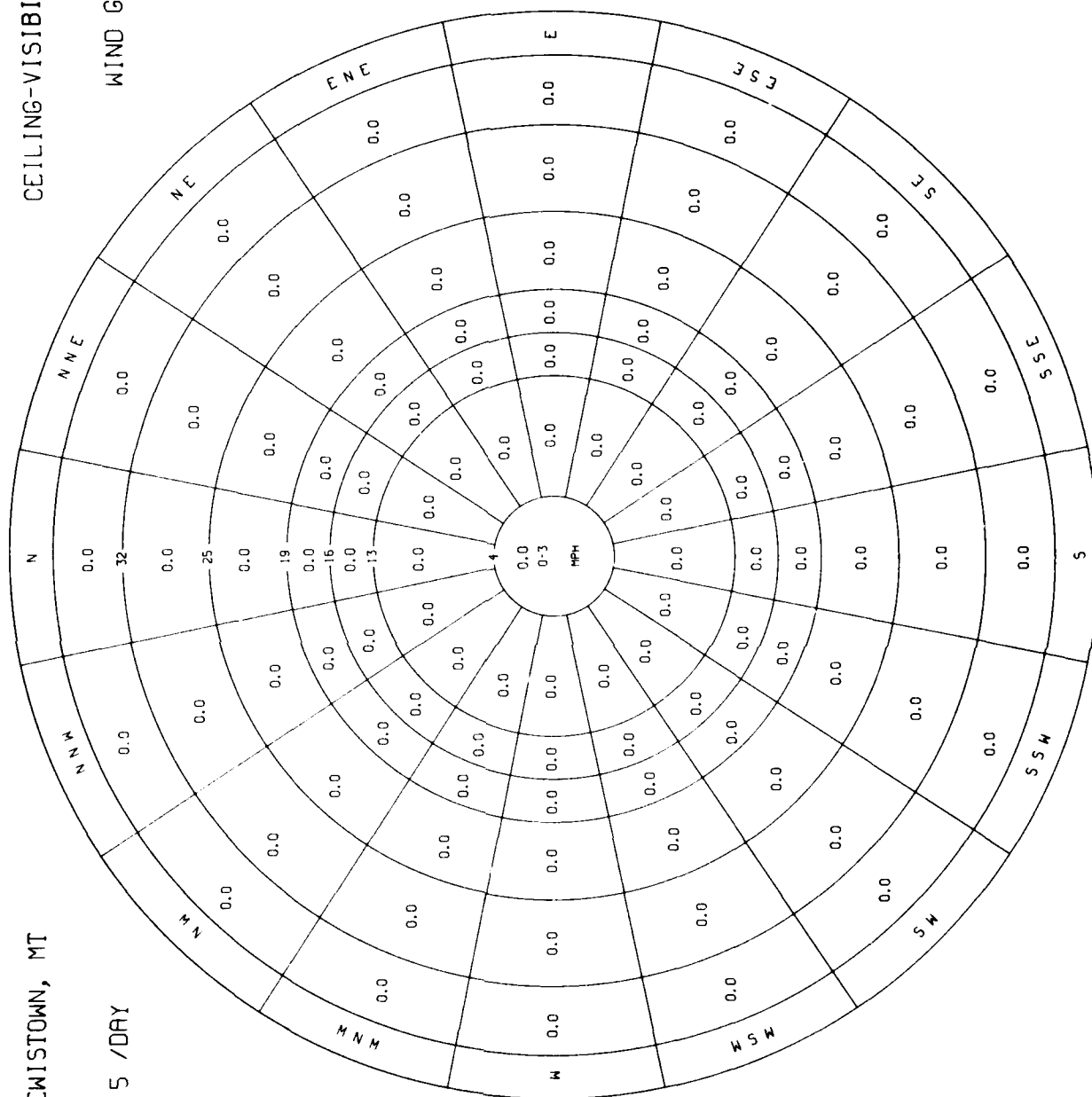
STATION NUMBER: 24036

NO. OBS.: 336

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
															C		O
N	.0	.0	.0	2.1	.0	1.5	.0	.6	.0	.3	.0	.0	.0	.0	.0	4.5	12.6
NNE	.0	.0	.0	.6	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.9	14.3
NE	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	9.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	8.8
ESE	.0	.6	.0	2.1	.0	.0	.0	.3	.0	.6	.0	.0	.0	.0	.0	3.6	10.7
SE	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	9.0
SSE	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	7.0
S	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	3.0
SSW	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	5.0
SW	.0	.3	.0	1.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	12.0
WSW	.0	.3	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	7.0
W	.0	.9	.1	7.4	.0	2.7	.0	3.0	.0	1.2	.0	.3	.0	.3	.1	15.8	12.5
WNW	.0	.3	.1	10.1	.1	6.3	.1	7.7	.1	12.5	.0	3.9	.0	.6	.4	41.4	17.1
NW	.0	.3	.0	3.9	.0	2.7	.0	4.8	.0	4.2	.0	3.0	.0	.0	.2	18.8	17.2
NNW	.0	.3	.0	.6	.0	.0	.0	.3	.0	.6	.0	.3	.0	.0	.0	2.1	15.9
CALM	.0	3.6													.0	3.6	
TOTAL	.1	7.1	.3	34.5	.1	13.4	.2	16.7	.2	19.6	.1	7.4	.0	1.2	.9	100	14.5

CEILING-VISIBILITY
WIND GRAPH

LWT LEWISTOWN, MT
CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: CWT LEWISTOWN, MT

CLASSES / DAY

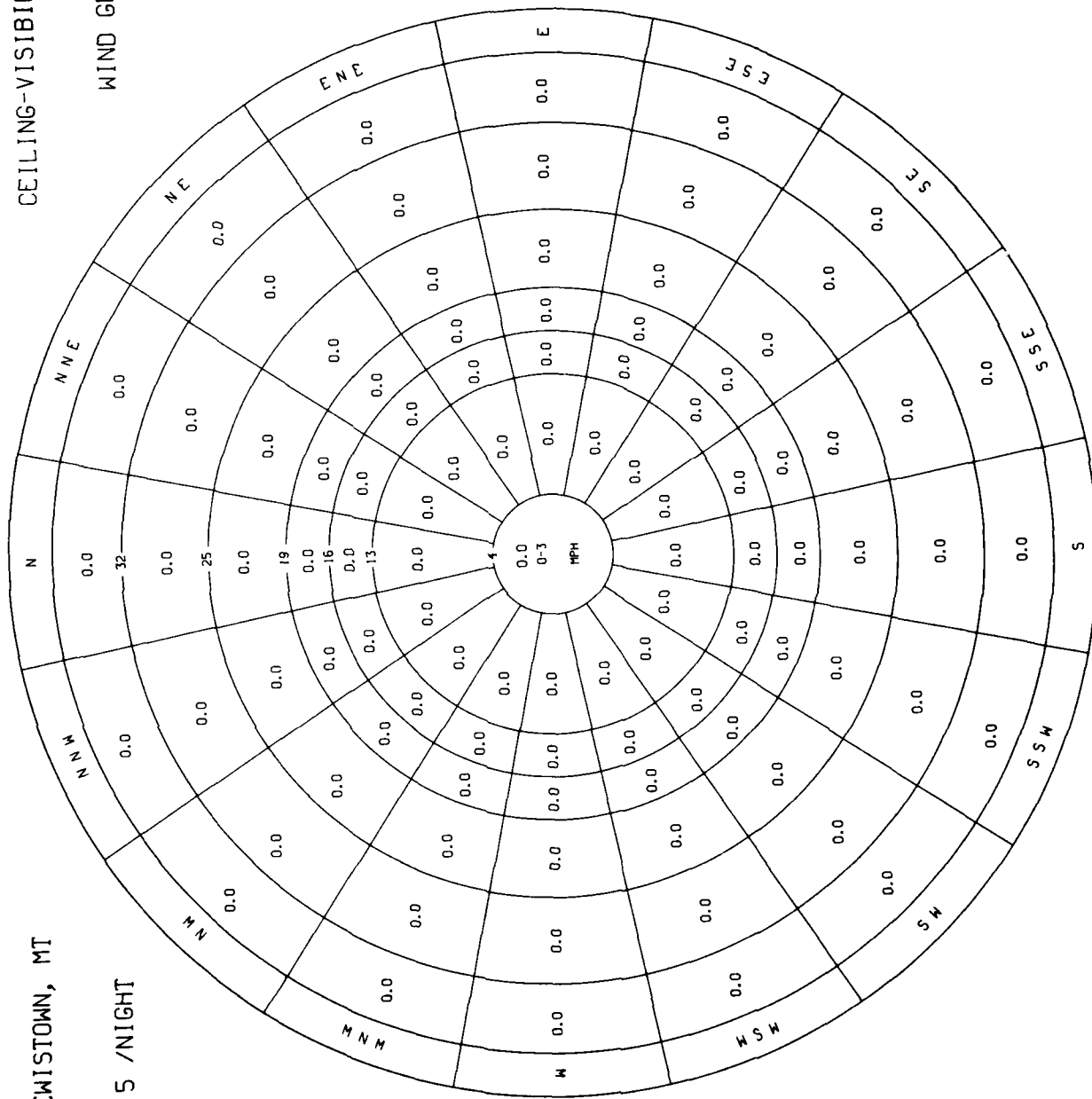
NO. OBS.: 137

STATION NUMBER: 24036

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	2.9	.0	.0	.0	.5	.0	.5	.0	.7	.0	.0	.0	6.6	15.1
NNE	.0	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	1.5	13.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.7	.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	2.2	11.3
ESE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	21.0
SE	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	3.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	12.0
WSW	.0	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	1.5	13.5
W	.0	1.5	.0	7.3	.0	2.2	.0	1.5	.0	2.9	.0	1.5	.0	1.5	.0	18.2	14.4
WNW	.0	.0	.0	4.4	.0	2.9	.0	2.9	.0	15.3	.0	8.0	.0	3.6	.1	37.2	22.2
NW	.0	.7	.0	3.6	.0	.7	.0	1.5	.0	5.1	.0	8.8	.0	5.1	.1	25.5	23.4
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	30.0
CALM	.0	3.6													.0	3.6	
TOTAL	.0	7.3	.1	21.2	.0	6.6	.0	9.5	.1	25.5	.1	19.7	.0	10.2	.3	100	19.1

CEILING-VISIBILITY

WIND GRAPH



LWT LEWISTOWN, MT

CLASS 5 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LWT LEWISTOWN, MT

PERIOD: 1948-1978

CLASS 5 / NIGHT

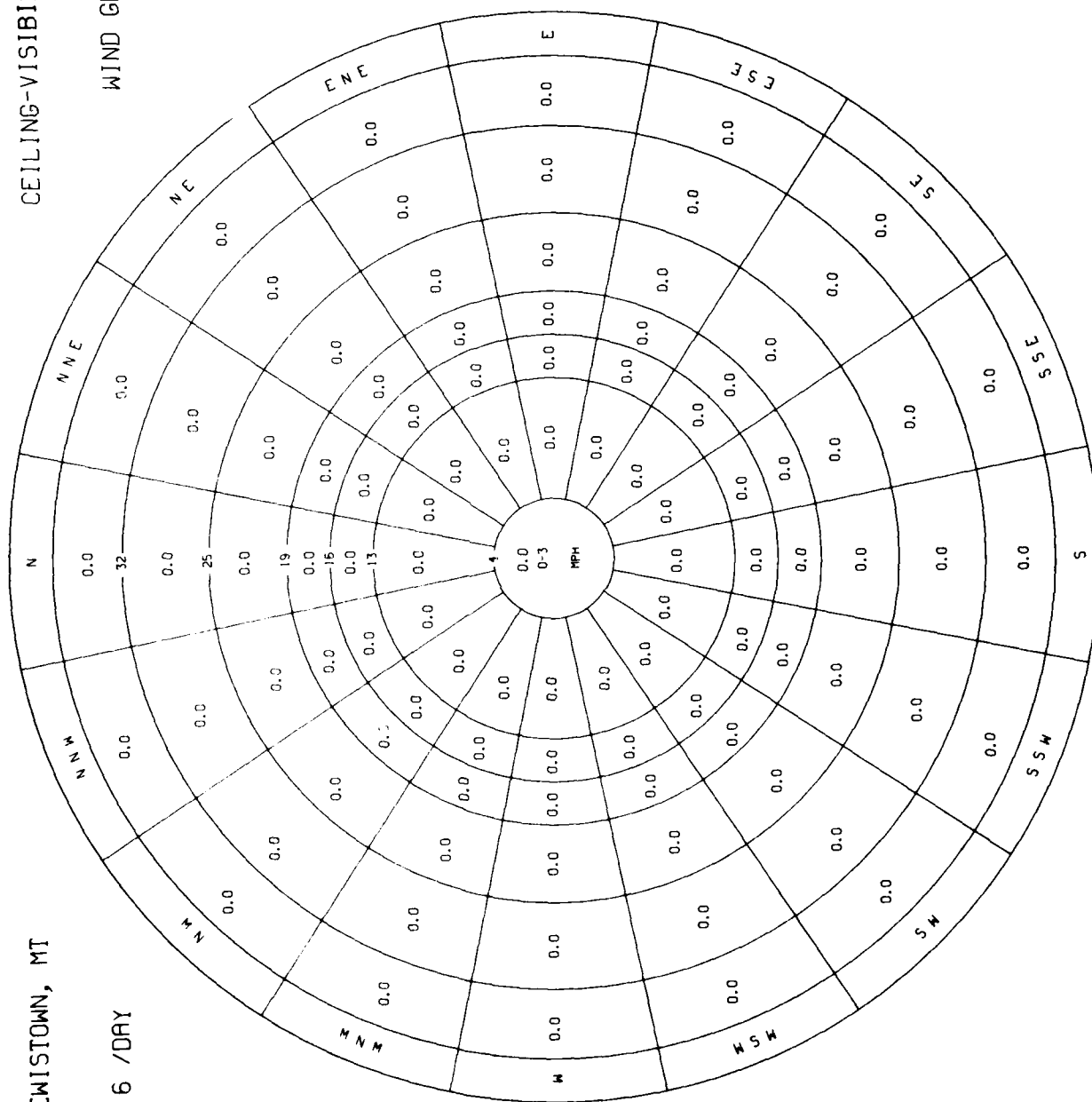
STATION NUMBER: 24036

NO. OBS.: 74

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.0	.0	1.4	.0	1.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	4.1	12.7
NNE	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	13.0
NE	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	6.0
ENE	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	1.4	16.0
E	.0	4.1	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	4.6
ESE	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	5.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	1.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	12.0
W	.0	1.4	.0	13.5	.0	4.1	.0	2.7	.0	1.4	.0	1.4	.0	.0	.0	24.3	11.7
WNW	.0	.0	.0	13.5	.0	5.4	.0	2.7	.0	4.1	.0	4.1	.0	4.1	.0	33.8	17.8
NW	.0	.0	.0	4.1	.0	2.7	.0	.0	.0	4.1	.0	2.7	.0	2.7	.0	16.2	20.4
NNW	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	3.0
CALM	.0	5.4													.0	5.4	
TOTAL	.0	12.2	.1	39.2	.0	16.2	.0	8.1	.0	9.5	.0	8.1	.0	6.8	.2	100	13.9

CEILING-VISIBILITY

WIND GRAPH



ANNUAL

PERIOD: 1948-1978

STATION NAME: LWT LEWISTOWN, MT

CLASS 6 / DAY

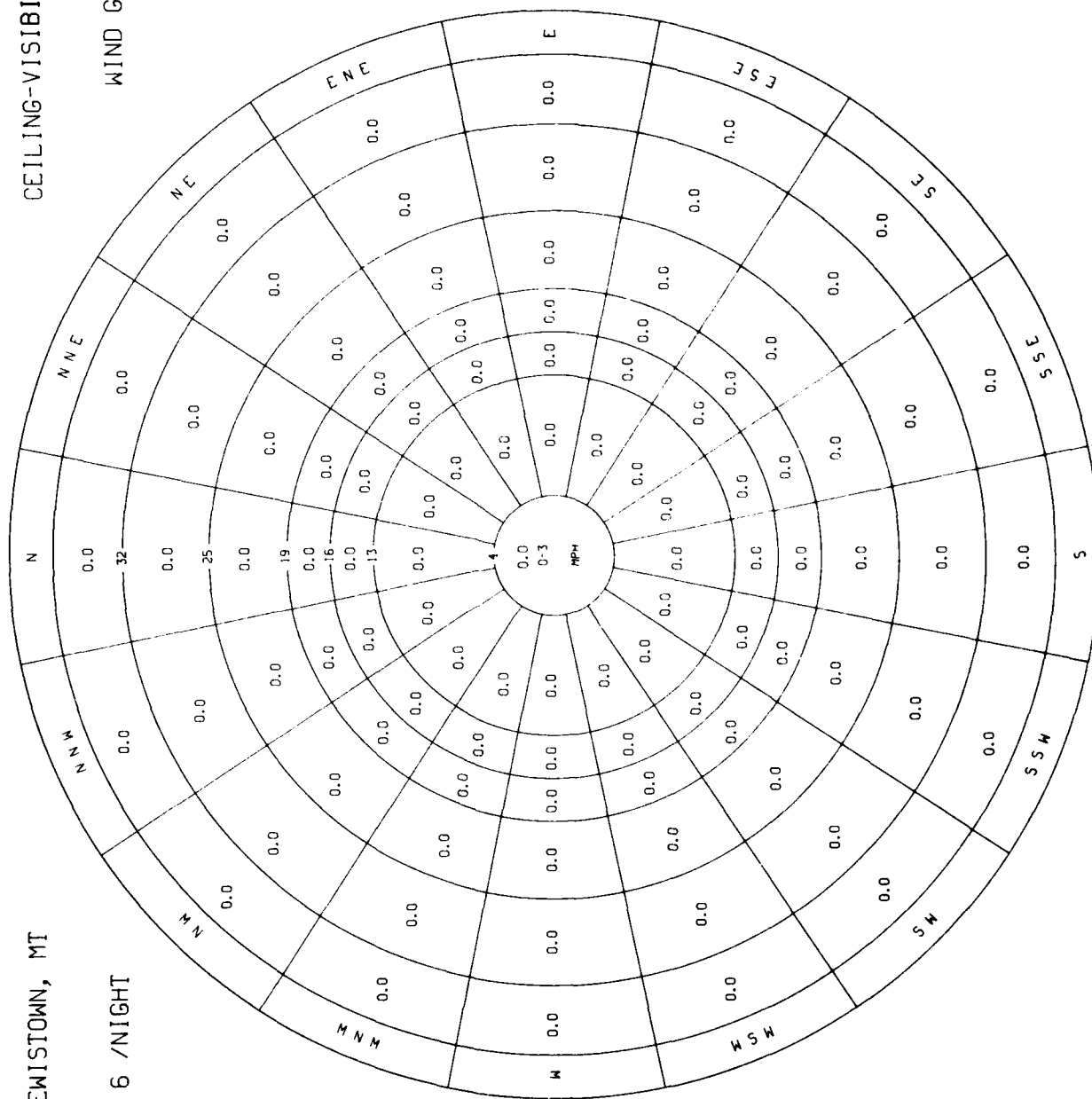
NO. OBS.: 54

STATION NUMBER: 24036

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.0	7.4	.0	.0	.0	.0	.0	3.7	.0	1.9	.0	.0	.0	13.0	15.6
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	6.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	5.0
SSE	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	5.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	1.9	.0	1.9	.0	.0	.0	1.9	.0	.0	.0	1.9	.0	7.4	20.7
W	.0	.0	.0	9.3	.0	7.4	.0	1.9	.0	.0	.0	1.9	.0	.0	.0	20.4	13.3
WNW	.0	.0	.0	5.6	.0	1.9	.0	.0	.0	5.6	.0	5.6	.0	3.7	.0	22.2	21.5
NW	.0	1.9	.0	1.9	.0	3.7	.0	.0	.0	5.6	.0	7.4	.0	5.6	.0	25.9	23.2
NNW	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	8.0
CALM	.0	3.7													.0	3.7	
TOTAL	.0	5.6	.0	33.3	.0	14.8	.0	1.9	.0	16.7	.0	16.7	.0	11.1	.0	100	17.5

CEILING-VISIBILITY

WIND GRAPH



LWT LEWISTOWN, MT

CLASS 6 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LWT LEWISTOWN, MT

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 24036

NO. OBS.: 38

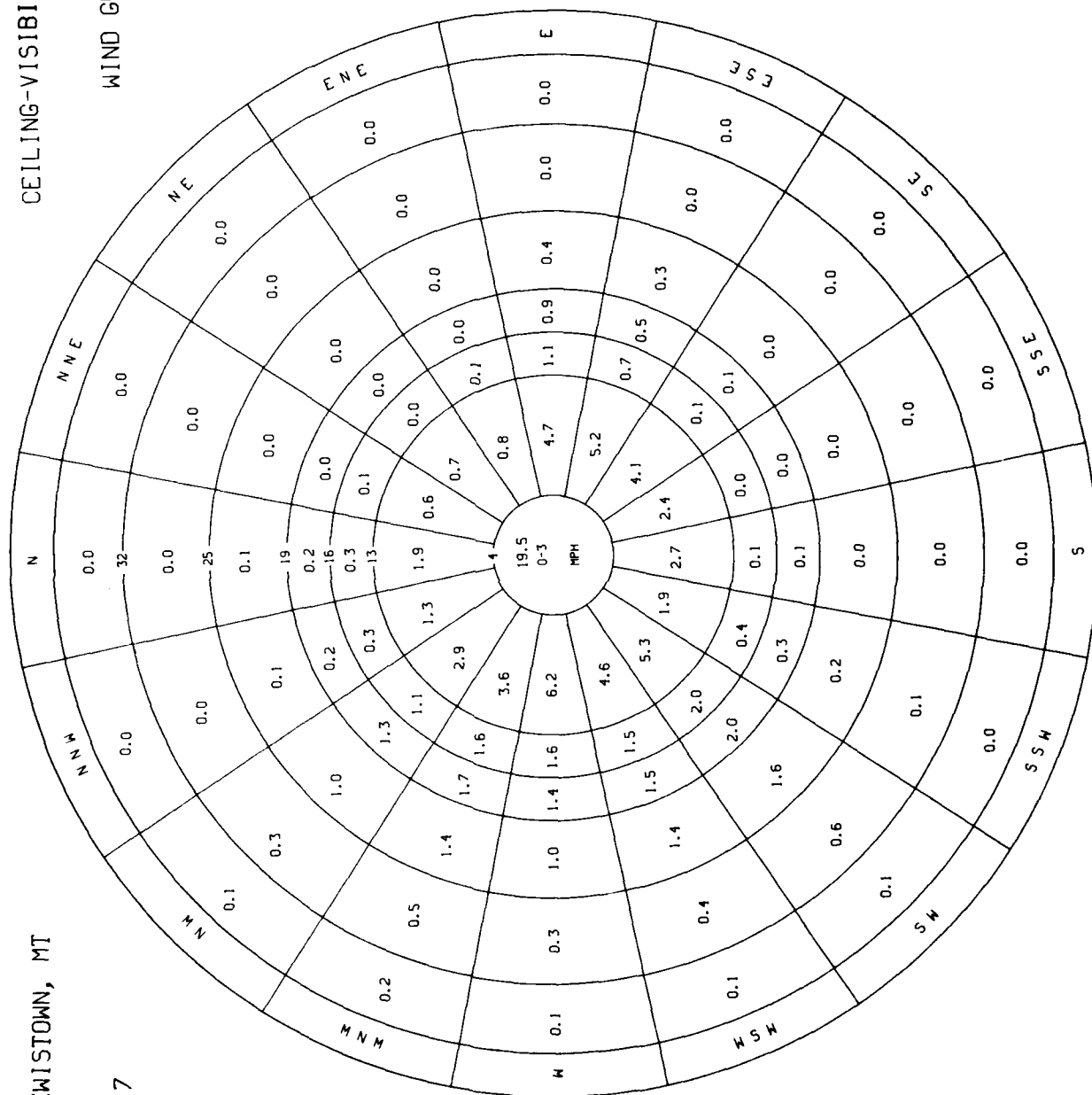
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.0	.0	7.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	7.3
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	5.0
ESE	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	6.5
SE	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	3.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	5.0
SSW	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	6.0
SW	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	5.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	15.8	.0	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	23.7	16.9
WNW	.0	.0	.0	13.2	.0	7.9	.0	5.3	.0	.0	.0	.0	.0	.0	.0	31.6	16.2
NW	.0	2.6	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.2	24.2
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	2.6													.0	2.6	
TOTAL	.0	7.9	.1	55.3	.0	10.5	.0	5.3	.0	2.6	.0	.0	.0	.0	18.4	1	100

CEILING-VISIBILITY

WIND GRAPH

LWT LEWISTOWN, MT

CLASS 7

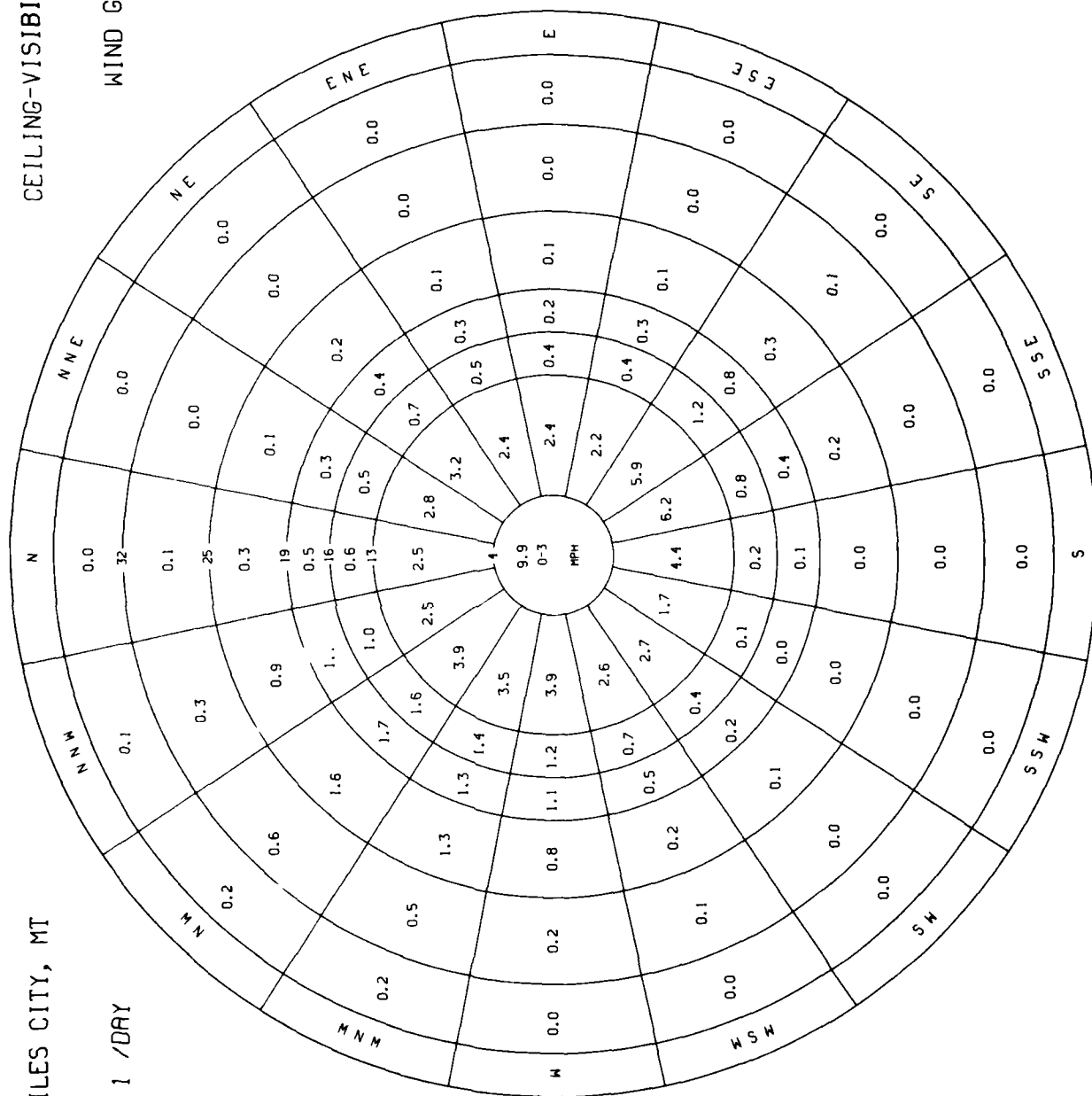


CEILING-VISIBILITY

WIND GRAPH

MLS MILES CITY, MT

CLASS 1 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME:MLS MILES CITY, MT

PERIOD: 1948-1978

CLASS 1 / DAY

STATION NUMBER: 24037

NO. OBS.: 48051

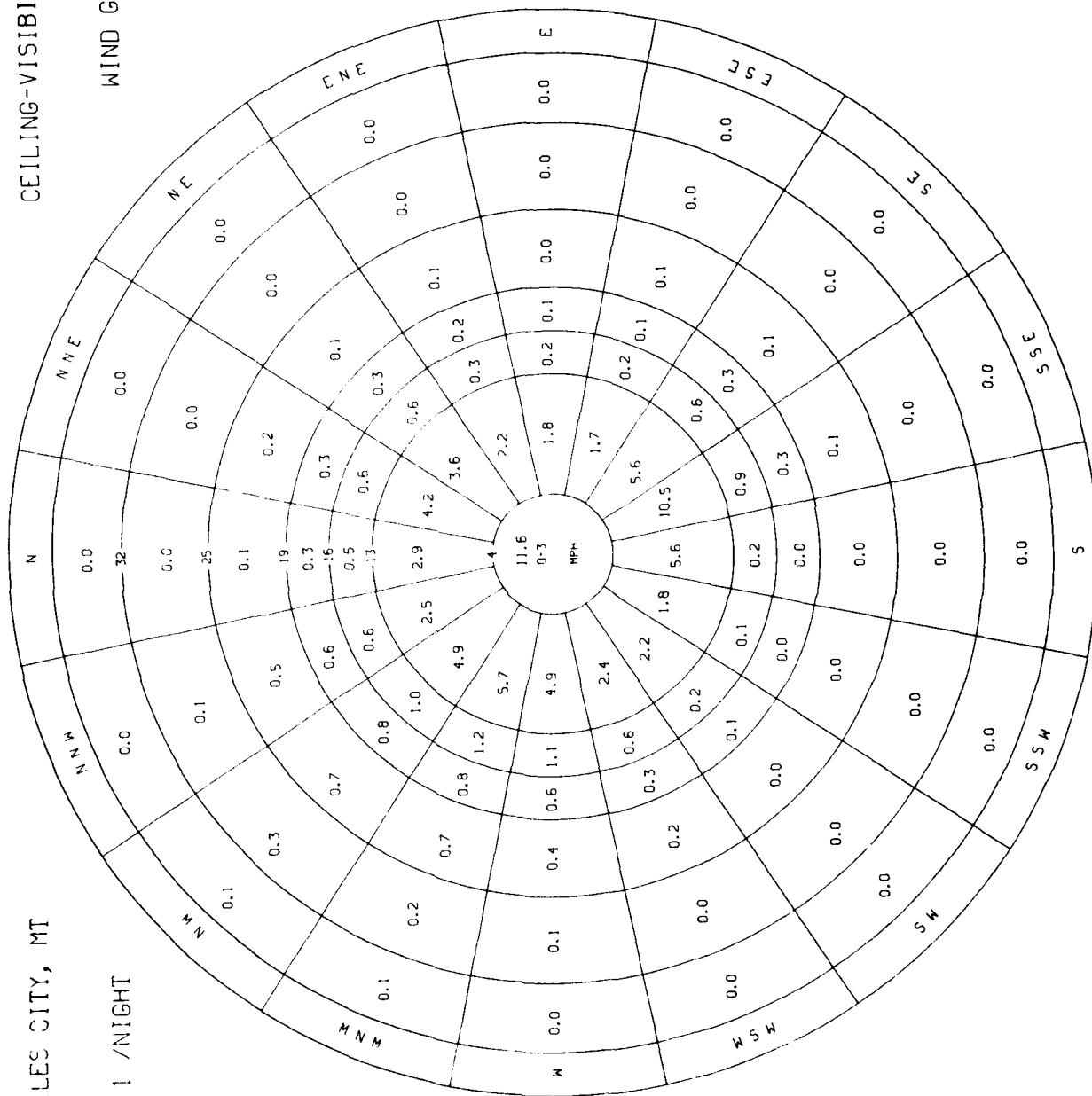
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.2	.2	2.5	2.7	.6	.6	.5	.5	.3	.3	.1	.1	.0	.0	4.1	4.5	11.3
NNE	.2	.2	2.8	3.1	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	4.0	4.4	10.1
NE	.3	.3	3.2	3.5	.7	.7	.4	.4	.2	.2	.0	.0	.0	.0	4.7	5.1	10.2
ENE	.2	.2	2.4	2.6	.5	.5	.3	.3	.1	.1	.0	.0	.0	.0	3.5	3.7	10.1
E	.2	.3	2.4	2.6	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	3.3	3.5	9.2
ESE	.2	.2	2.2	2.4	.4	.4	.3	.3	.1	.1	.0	.0	.0	.0	3.2	3.5	9.8
SE	.5	.6	5.9	6.4	1.2	1.3	.8	.8	.3	.3	.1	.1	.0	.0	8.8	9.5	10.1
SSE	.4	.5	6.2	6.6	.8	.9	.4	.4	.2	.2	.0	.0	.0	.0	8.0	8.6	9.3
S	.6	.7	4.4	4.8	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	5.4	5.8	7.5
SSW	.3	.3	1.7	1.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.2	2.3	7.6
SW	.3	.4	2.7	3.0	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	3.8	4.1	9.0
WSW	.1	.2	2.6	2.8	.7	.8	.5	.6	.2	.3	.1	.1	.0	.0	4.3	4.7	11.5
W	.2	.3	3.9	4.2	1.2	1.3	1.1	1.2	.8	.8	.2	.2	.0	.0	7.5	8.1	12.8
WNW	.2	.2	3.5	3.8	1.4	1.5	1.3	1.4	1.3	1.4	.5	.6	.2	.2	8.4	9.1	14.6
NW	.2	.3	3.9	4.2	1.6	1.7	1.7	1.8	1.6	1.7	.6	.6	.2	.2	9.8	10.6	14.8
NNW	.2	.2	2.5	2.7	1.0	1.1	1.1	1.2	.9	1.0	.3	.3	.1	.1	6.2	6.7	14.1
CALM	.5	.3	5.8												5.3	5.8	
TOTAL	5.9	10.7	53.0	57.3	11.7	12.7	9.1	9.8	6.4	6.9	1.9	2.0	.5	.6	92.6	100	10.6

CEILING-VISIBILITY

WIND GRAPH

MLS MILES CITY, MT

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MILES CITY, MT

PERIOD: 1948-1978

CLASS 1 / NIGHT

STATION NUMBER: 24037

NO. OBS.: 35750

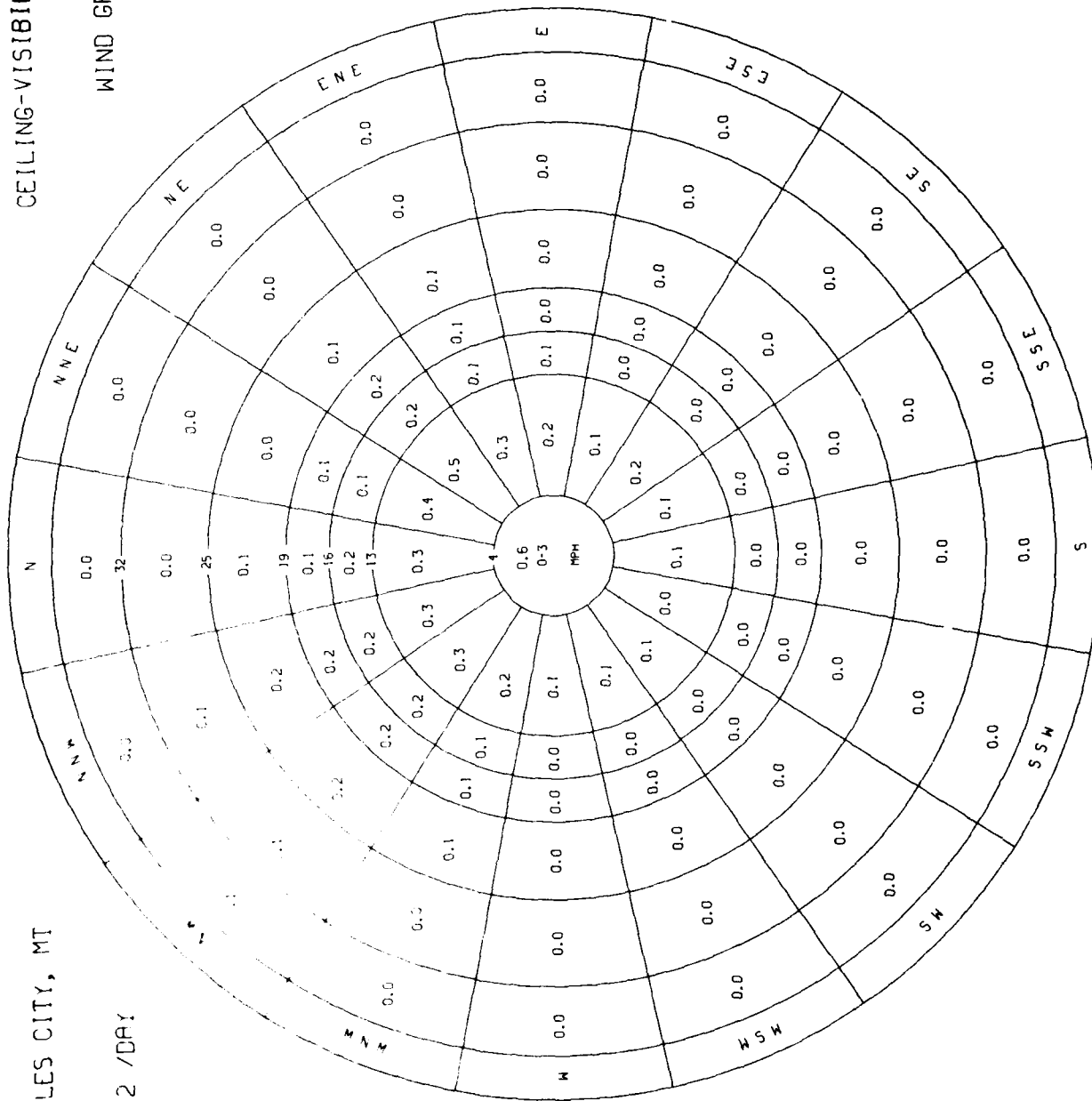
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.3	.3	2.9	3.2	.5	.5	.3	.3	.1	.1	.0	.0	.0	.0	4.1 4.4
NNE	.3	.4	4.2	4.5	.6	.7	.3	.3	.2	.2	.0	.0	.0	.0	5.6 6.0
NNE	.3	.3	3.6	3.9	.6	.7	.3	.3	.1	.1	.0	.0	.0	.0	5.0 5.4
ENE	.3	.3	2.2	2.4	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	3.1 3.4
E	.2	.3	1.8	2.0	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.4 2.5
ESE	.2	.2	1.7	1.9	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	2.4 2.5
SE	.6	.7	5.6	6.1	.6	.6	.3	.4	.1	.1	.0	.0	.0	.0	7.3 7.9
SSE	.8	.8	10.5	11.3	.9	.9	.3	.3	.1	.1	.0	.0	.0	.0	12.4 13.4
S	.8	.9	5.6	6.1	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	6.7 7.2
SSW	.3	.3	1.8	1.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.1 2.3
SW	.3	.3	2.2	2.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.8 3.0
WSW	.2	.2	2.4	2.6	.6	.6	.3	.3	.2	.2	.0	.0	.0	.0	3.7 4.0
W	.4	.4	4.9	5.3	1.1	1.2	.6	.7	.4	.4	.1	.1	.0	.0	7.5 8.1
WNW	.4	.4	5.7	6.2	1.2	1.3	.8	.8	.7	.7	.2	.2	.1	.1	9.1 9.8
NW	.4	.4	4.9	5.3	1.0	1.1	.8	.9	.7	.8	.3	.3	.1	.1	8.1 8.8
NNW	.3	.3	2.5	2.7	.6	.6	.6	.6	.5	.5	.1	.2	.0	.0	4.6 5.0
CALM	5.7	6.1													5.7 6.1
TOTAL	11.6	12.5	62.6	67.6	8.8	9.5	5.2	5.6	3.2	3.5	.9	1.0	.3	.3	92.5 100
															9.2

CEILING-VISIBILITY

WIND GRAPH

MLS MILES CITY, MT

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MLS MILES CITY, MT

PERIOD: 1948-1978

CLASS 2 / DAY

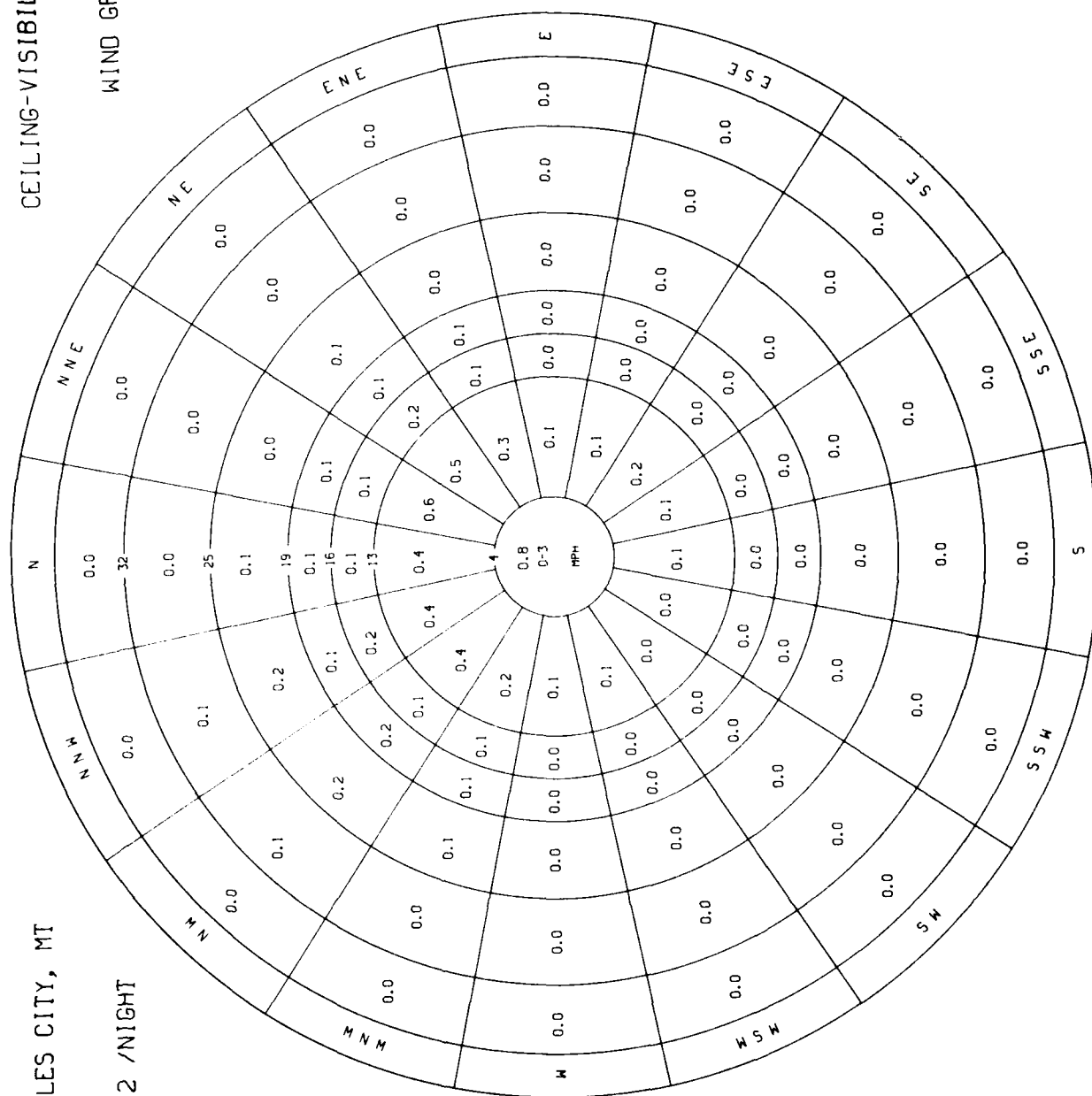
STATION NUMBER: 24037

NO. OBS.: 3860

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.1	.3	4.6	.2	2.0	.1	1.7	.1	1.4	.0	.5	.0	.1	.8 10.4
NNE	.0	.2	.4	5.8	.1	2.0	.1	1.2	.0	.6	.0	.1	.0	.0	.7 9.9
NE	.0	.3	.5	6.4	.2	2.5	.2	2.0	.1	1.2	.0	.1	.0	.1	.9 12.6
ENE	.0	.2	.3	4.1	.1	1.6	.1	1.1	.1	.9	.0	.1	.0	.0	.6 7.9
E	.0	.3	.2	2.6	.1	.8	.0	.4	.0	.3	.0	.0	.0	.0	.3 4.3
ESE	.0	.2	.1	1.1	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.1 1.9
SE	.0	.4	.2	2.2	.0	.5	.0	.4	.0	.1	.0	.0	.0	.0	.3 3.6
SSE	.0	.1	.1	1.3	.0	.2	.0	.0	.0	.1	.0	.0	.0	.0	.1 1.7
S	.0	.1	.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 1.1
SSW	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .4
SW	.0	.1	.1	.8	.0	.1	.0	.0	.0	.1	.0	.1	.0	.1	.1 1.2
WSW	.0	.0	.1	.8	.0	.2	.0	.2	.0	.2	.0	.0	.0	.0	.1 1.5
W	.0	.2	.1	1.8	.0	.5	.0	.4	.0	.6	.0	.2	.0	.2	.3 3.9
WNW	.0	.2	.2	2.3	.1	.9	.1	.7	.1	1.3	.0	.6	.0	.3	.5 6.3
NW	.0	.2	.3	4.2	.2	2.3	.2	3.0	.2	2.7	.1	1.6	.1	.7	1.1 14.7
NNW	.0	.2	.3	4.1	.2	2.6	.2	3.1	.2	2.9	.1	.9	.0	.3	1.0 14.0
CALM	.3	4.4													.3 4.4
TOTAL	.6	7.4	3.2	43.4	1.2	16.6	1.1	14.5	.9	12.2	.3	4.1	.1	1.7	7.4 100 13.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME:MLS MILES CITY, MT

PERIOD: 1948-1978

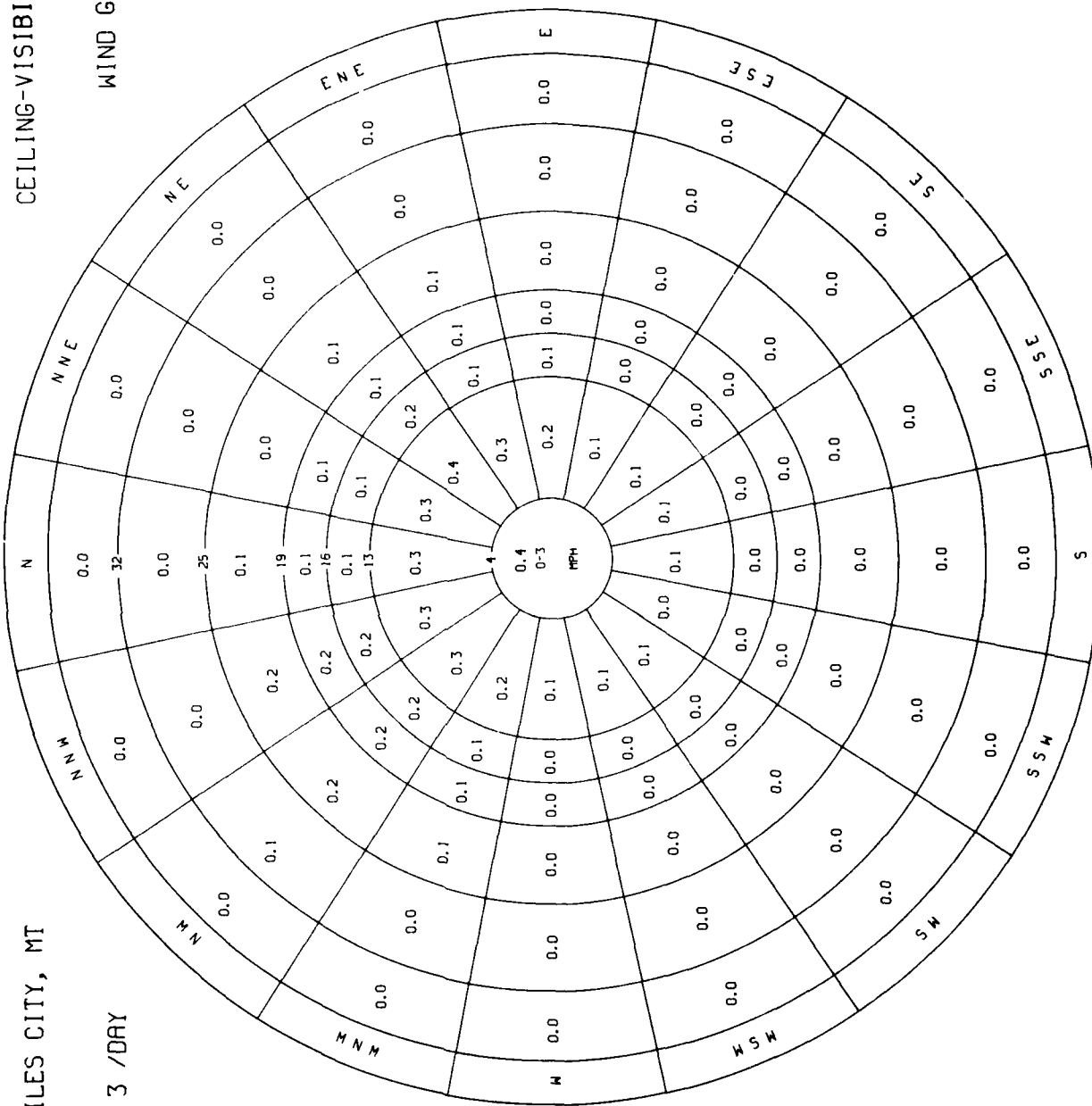
CLASS 2 / NIGHT

STATION NUMBER:24037

NO. OBS.: 2887

O I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.2	.4	5.7	.1	1.7	.1	1.6	.1	1.0	.0	.2	.0	.0	.8 10.4
NNE	.1	.8	.6	7.9	.1	1.8	.1	1.4	.0	.6	.0	.1	.0	.0	.9 12.6
NNE	.0	.5	.5	7.1	.2	2.5	.1	1.6	.1	.9	.0	.2	.0	.0	.9 12.7
ENE	.0	.2	.3	3.7	.1	.9	.1	.9	.0	.6	.0	.1	.0	.0	.5 6.3
E	.0	.2	.1	1.7	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.2 2.6
ESE	.0	.1	.1	1.3	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.1 1.9
SE	.0	.3	.2	2.6	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.3 3.5
SSE	.0	.2	.1	1.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2 2.0
S	.0	.2	.1	1.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 1.4
SSW	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .6
SW	.0	.2	.0	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 1.0
WSW	.0	.1	.1	.9	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1 1.2
W	.0	.2	.1	1.9	.0	.4	.0	.2	.0	.3	.0	.1	.0	.0	.2 3.2
WNW	.0	.5	.2	2.6	.1	1.0	.1	1.0	.1	.9	.0	.6	.0	.2	.5 6.8
NW	.0	.3	.4	5.0	.1	1.7	.2	2.9	.2	2.2	.1	1.0	.0	.6	1.0 13.7
NNW	.0	.2	.4	5.1	.2	2.2	.1	1.9	.2	3.1	.1	.8	.0	.3	1.0 13.6
CALM	.5	6.4													.5 6.4
TOTAL	.8 10.8	3.7 49.5	1.0 13.6	.9 12.0	.7 9.9	.2 3.0	.1 1.1	.1 1.1	.1 1.1	.1 1.1	.1 1.1	.1 1.1	.1 1.1	.1 1.1	7.5 100
															11.7

CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME:MLS MILES CITY, MT

PERIOD: 1948-1978

CLASS 3 / DAY

STATION NUMBER:24037

NO. OBS.: 3225

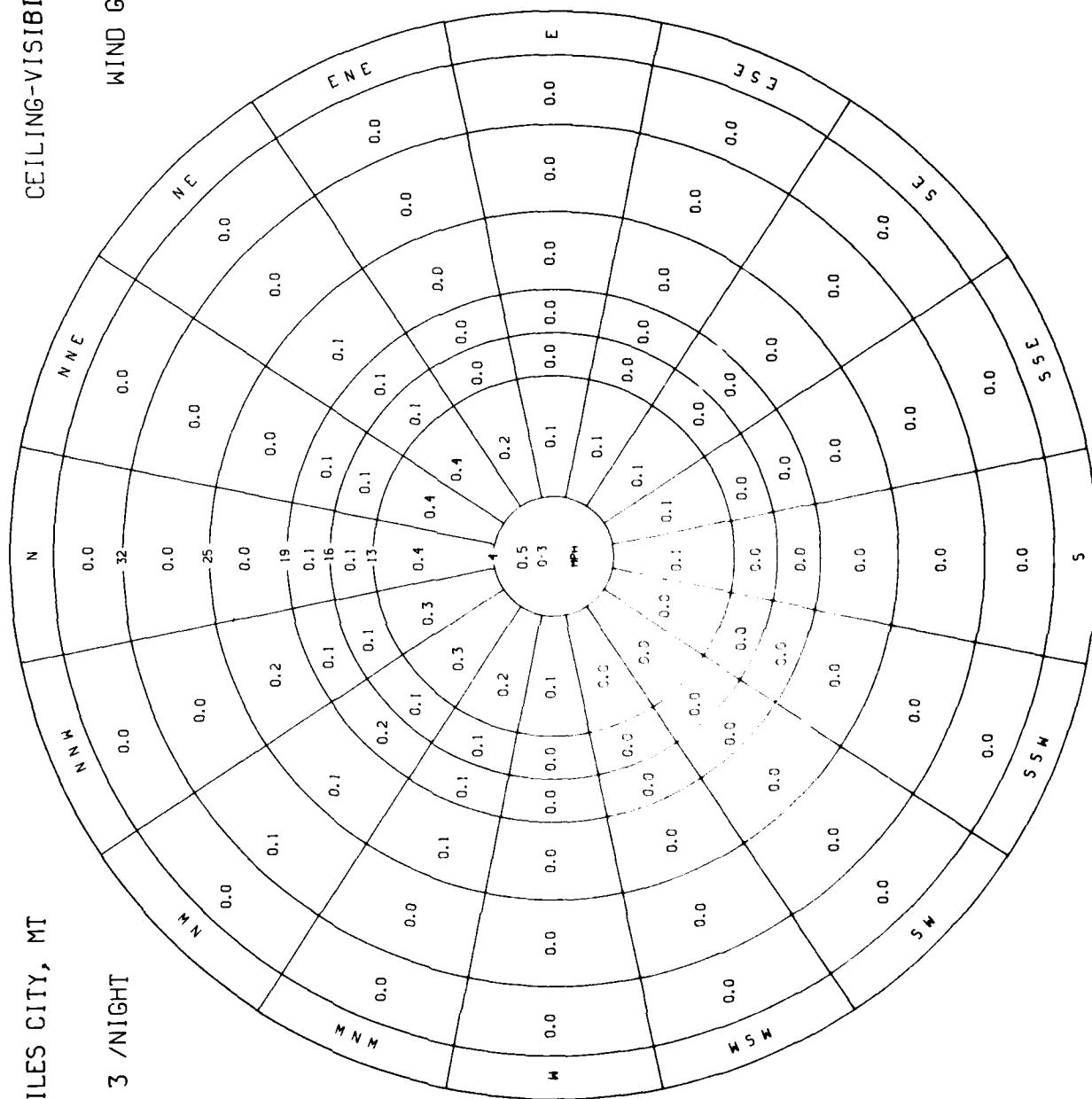
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.1	.3	4.9	.1	2.1	.1	1.5	.1	1.4	.0	.4	.0	.1	.7	10.5	13.8
NNE	.0	.2	.3	5.6	.1	2.1	.1	1.3	.0	.5	.0	.1	.0	.0	.6	9.8	11.8
NE	.0	.3	.4	6.7	.2	2.5	.1	1.9	.1	1.0	.0	.1	.0	.1	.8	12.4	12.4
ENE	.0	.1	.3	4.3	.1	1.6	.1	1.1	.1	.8	.0	.0	.0	.0	.5	8.0	12.3
E	.0	.3	.2	2.9	.1	.9	.0	.3	.0	.2	.0	.0	.0	.0	.3	4.7	10.9
ESE	.0	.1	.1	1.2	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.1	2.0	10.8
SE	.0	.4	.1	2.2	.0	.6	.0	.5	.0	.1	.0	.0	.0	.0	.2	3.7	10.1
SSE	.0	.1	.1	1.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.5	9.3
S	.0	.1	.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.0	7.3
SSW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	6.8
SW	.0	.1	.1	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.1	9.4
WSW	.0	.0	.1	.8	.0	.2	.0	.2	.0	.2	.0	.0	.0	.0	.1	1.6	13.3
W	.0	.2	.1	2.0	.0	.5	.0	.5	.0	.6	.0	.2	.0	.2	.2	4.0	13.8
WNW	.0	.2	.2	2.5	.1	.9	.1	.8	.1	1.3	.0	.6	.0	.3	.4	6.7	16.2
NW	.0	.2	.3	4.6	.2	2.4	.2	3.3	.2	2.4	.1	1.4	.0	.5	.9	14.9	16.5
NNW	.0	.2	.3	4.6	.2	2.9	.2	2.9	.2	2.8	.0	.7	.0	.2	.9	14.3	15.5
CALM	.2	3.7													.2	3.7	
TOTAL	.4	6.0	2.8	45.1	1.1	17.6	.9	14.7	.7	11.5	.2	3.6	.1	1.5	6.2	100	13.1

CEILING-VISIBILITY

WIND GRAPH

MLS MILES CITY, MT

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MLS MILES CITY, MT

CLASS 3 / NIGHT

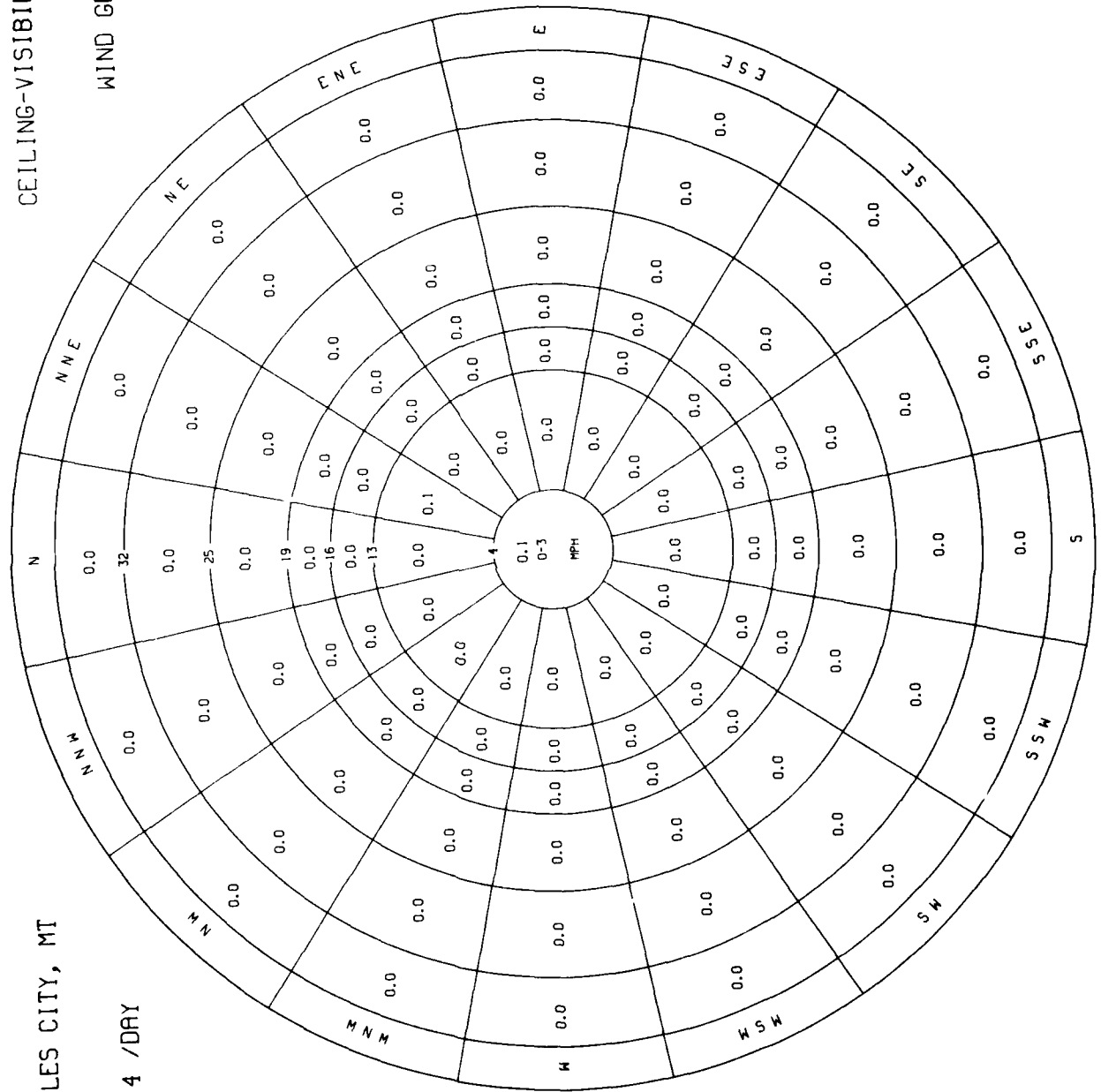
NO. OBS.: 2258

STATION NUMBER: 24037

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.4	6.2	.1	1.9	.1	1.6	.0	.6	.0	.2	.0	.0	.6 10.8
NNE	.0	.5	.4	7.6	.1	1.8	.1	1.5	.0	.6	.0	.0	.0	.0	.7 12.0
NE	.0	.4	.4	7.0	.1	2.4	.1	1.6	.1	.9	.0	.1	.0	.0	.7 12.4
ENE	.0	.1	.2	3.7	.0	.8	.0	.8	.0	.6	.0	.1	.0	.0	.4 6.0
E	.0	.2	.1	1.9	.0	.5	.0	.1	.0	.2	.0	.0	.0	.0	.2 2.9
ESE	.0	.2	.1	1.6	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.1 2.3
SE	.0	.3	.1	2.5	.0	.4	.0	.2	.0	.1	.0	.0	.0	.0	.2 3.5
SSE	.0	.1	.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 1.2
S	.0	.1	.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 1.1
SSW	.0	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .5
SW	.0	.2	.0	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 1.1
WSW	.0	.1	.0	.8	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1 1.2
W	.0	.2	.1	1.9	.0	.5	.0	.3	.0	.3	.0	.1	.0	.0	.2 3.4
WNW	.0	.3	.2	2.8	.1	1.1	.1	1.2	.1	1.1	.0	.5	.0	.3	.4 7.3
NW	.0	.3	.3	5.6	.1	2.2	.2	3.3	.1	2.1	.1	1.1	.0	.4	.9 15.0
NNW	.0	.2	.3	5.8	.1	2.5	.1	2.2	.2	3.0	.0	.8	.0	.2	.9 14.8
CALM	.3	4.7													.3 4.7
TOTAL	.5	8.2	2.9	50.4	.9	14.8	.8	12.9	.6	9.7	.2	3.0	.1	1.0	5.8 100

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MLS MILES CITY, MT

PERIOD: 1948-1978

CLASS 4 / DAY

STATION NUMBER: 24037

NO. OBS.: 398

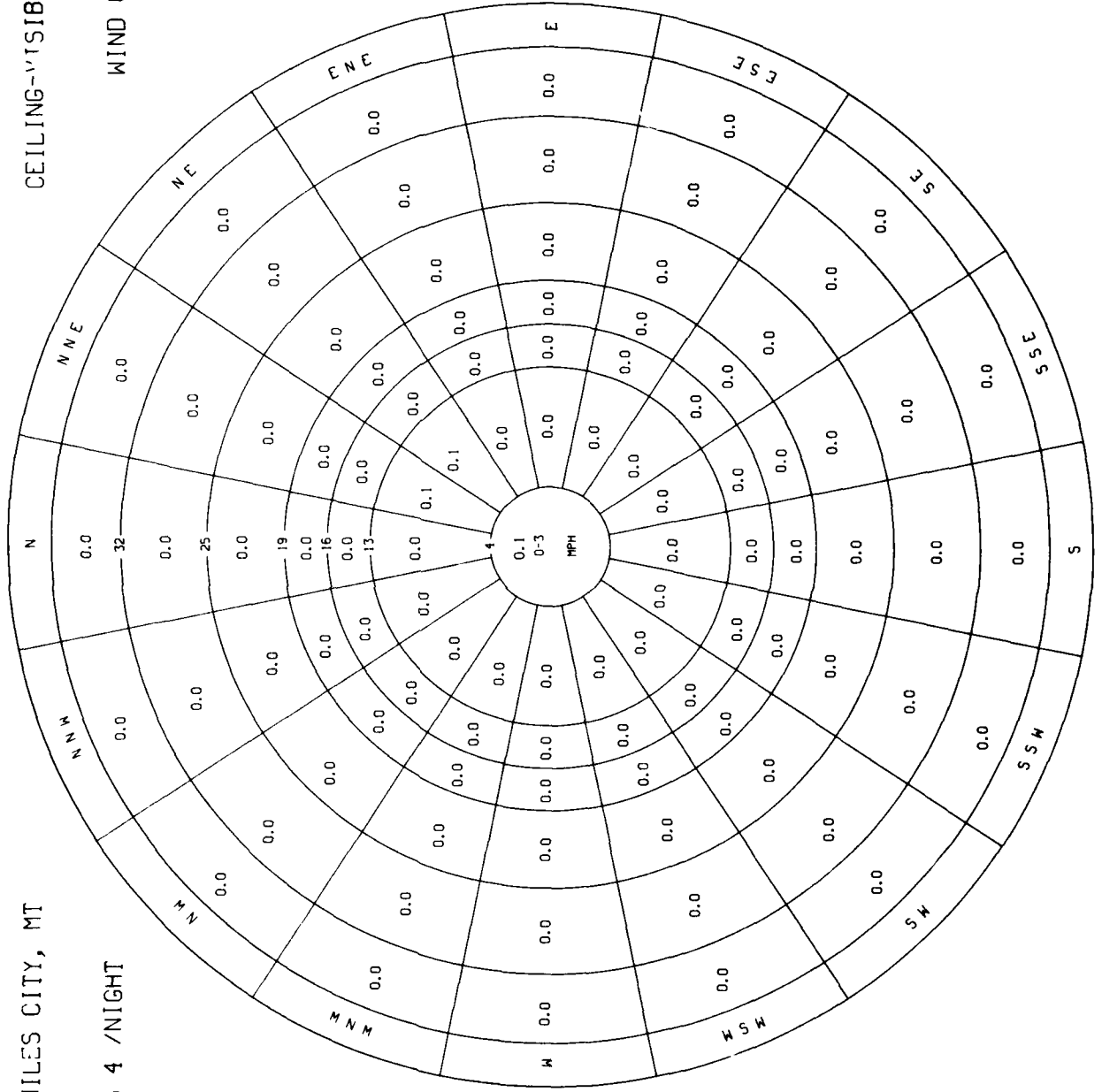
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.0	3.8	.0	1.8	.0	3.8	.0	1.0	.0	.8	.0	.0	.1	11.1	15.3
NNE	.0	.5	.1	9.0	.0	1.0	.0	1.3	.0	.8	.0	.3	.0	.0	.1	12.8	11.6
NE	.0	.3	.0	5.3	.0	3.0	.0	3.8	.0	2.8	.0	.0	.0	.0	.1	15.1	14.2
ENE	.0	.5	.0	4.5	.0	1.5	.0	.5	.0	1.3	.0	.3	.0	.0	.1	8.5	12.1
E	.0	.0	.0	1.0	.0	.3	.0	.3	.0	.8	.0	.0	.0	.0	.0	2.3	13.8
ESE	.0	.3	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	6.0
SE	.0	.8	.0	1.8	.0	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	3.3	9.1
SSE	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	2.3	9.0
S	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	7.0
SSW	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	3.0
SW	.0	.5	.0	.5	.0	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	1.8	14.9
WSW	.0	.0	.0	.8	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	1.3	10.6
W	.0	.8	.0	.5	.0	1.0	.0	.5	.0	.8	.0	.0	.0	.0	.0	3.5	12.8
WNW	.0	.0	.0	1.3	.0	1.0	.0	.3	.0	1.3	.0	.0	.0	.3	.0	4.0	16.6
NW	.0	.5	.0	2.5	.0	2.5	.0	1.5	.0	4.8	.0	2.5	.0	1.0	.1	15.3	19.3
NNW	.0	.0	.0	1.5	.0	1.5	.0	4.5	.0	3.3	.0	1.3	.0	.3	.1	12.3	18.7
CALM	.0	3.5													.0	3.5	
TOTAL	.1	7.8	.3	36.9	.1	14.1	.1	17.1	.1	17.1	.0	5.3	.0	1.8	.8	100	14.1

CEILING-VISIBILITY

WIND GRAPH

MLS MILES CITY, MT

CLASS 4 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MILES MILES CITY, MT

CLASS 4 / NIGHT

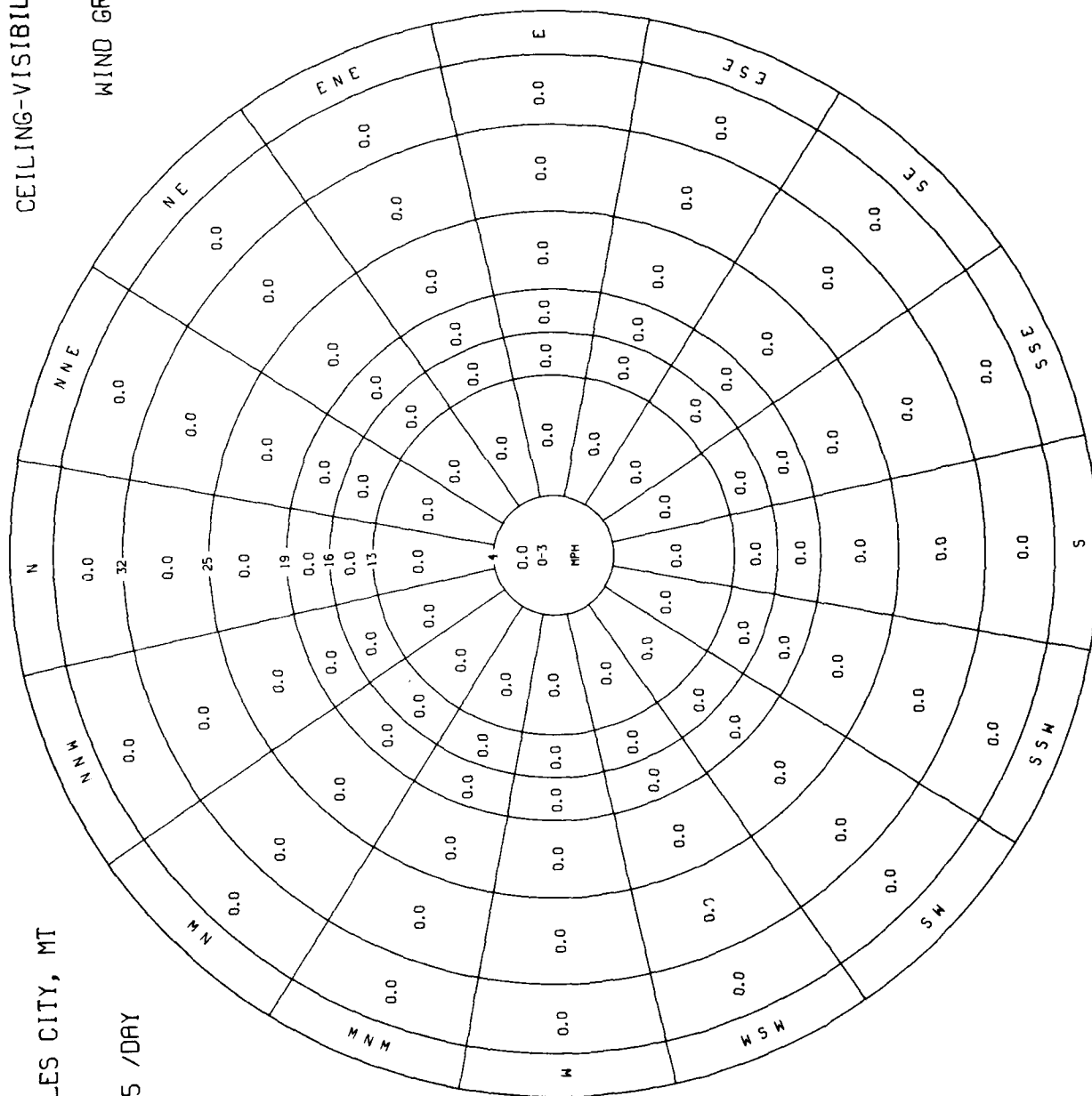
NO. OBS.: 363

STATION NUMBER: 24037

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.0	5.2	.0	1.1	.0	2.5	.0	3.0	.0	.3	.0	.0	.1	12.1	14.8
NNE	.0	1.7	.1	9.1	.0	2.2	.0	1.7	.0	.8	.0	.3	.0	.0	.1	15.7	10.5
NE	.0	.6	.1	8.3	.0	3.9	.0	2.2	.0	1.7	.0	.6	.0	.0	.2	17.1	12.8
ENE	.0	.0	.0	4.7	.0	2.5	.0	2.2	.0	1.1	.0	.0	.0	.0	.1	10.5	13.7
E	.0	.0	.0	.8	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	1.1	10.0
ESE	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	12.0
SE	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	9.0
SSE	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	8.6
S	.0	.0	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	9.0
SSW	.0	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	5.3
SW	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	8.0
WSW	.0	.0	.0	1.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	9.4
W	.0	.8	.0	1.4	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	1.5	6.9
WNW	.0	.6	.0	1.1	.0	.6	.0	.8	.0	.6	.0	.8	.0	.0	.0	1.4	15.0
NW	.0	.0	.0	2.8	.0	.0	.0	2.2	.0	3.0	.0	.6	.0	1.7	.1	10.2	19.9
NNW	.0	.3	.0	2.5	.0	1.4	.0	.8	.0	5.0	.0	.8	.0	.8	.1	11.6	18.6
CALM	.1	5.8													.1	5.8	
TOTAL	.1	10.2	.4	43.5	.1	12.4	.1	12.7	.1	15.4	.0	3.3	.0	2.5	.9	100	13.0

CEILING-VISIBILITY

WIND GRAPH



MLS MILES CITY, MT

CLASS 5 / DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MLS MILES CITY, MT

CLASS 5 / DAY

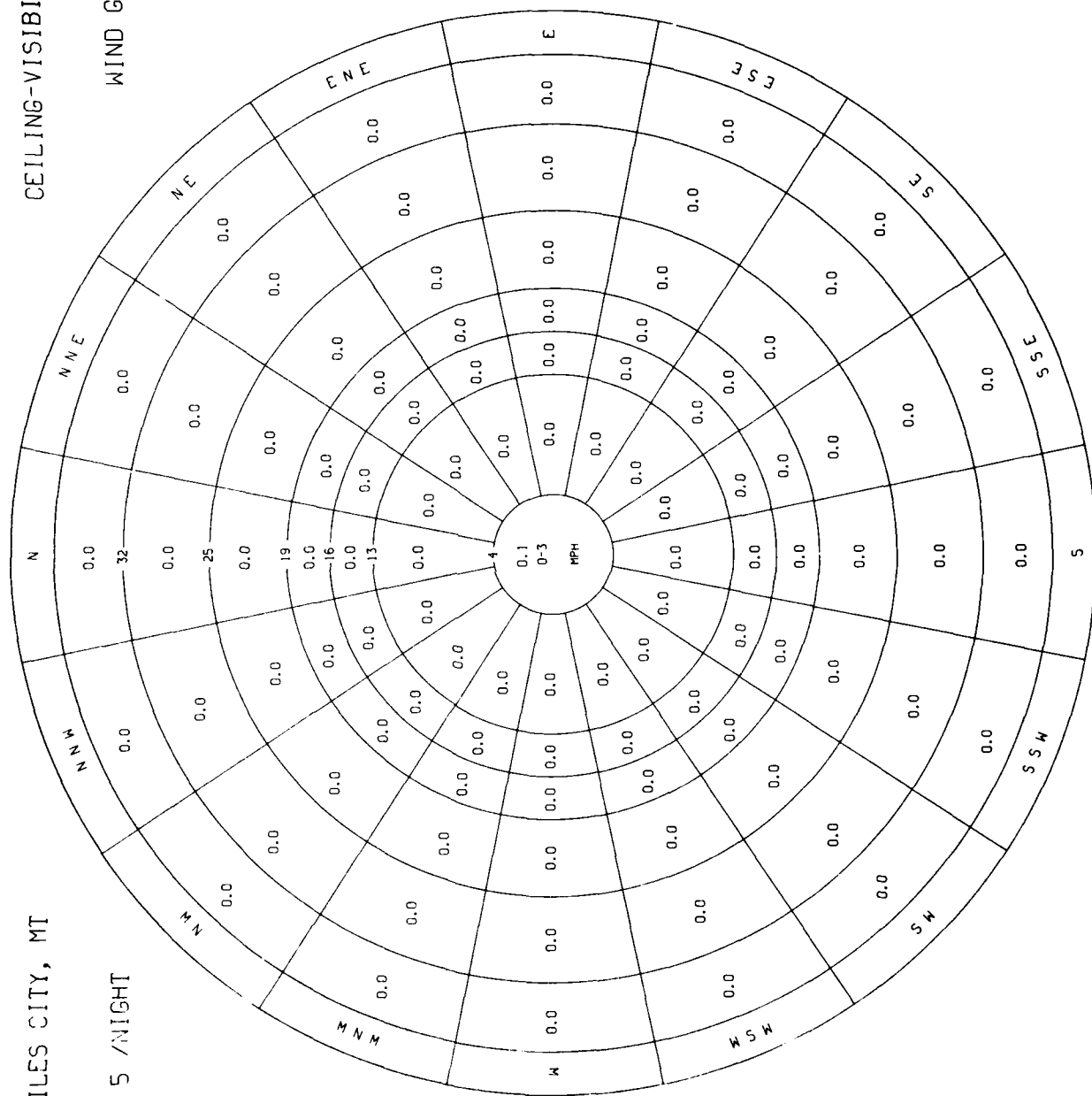
STATION NUMBER: 24037

NO. OBS.: 121

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.8	.0	1.7	.0	1.7	.0	.8	.0	3.3	.0	.8	.0	.8	.0 9.9
NNE	.0	.8	.0	4.1	.0	3.3	.0	.0	.0	1.7	.0	.0	.0	.0	.0 9.9
NE	.0	.0	.0	3.3	.0	3.3	.0	.8	.0	2.5	.0	.0	.0	.0	.0 9.9
ENE	.0	.8	.0	1.7	.0	1.7	.0	2.5	.0	1.7	.0	.0	.0	.0	.0 8.3
E	.0	.0	.0	.8	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0 3.3
ESE	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7
SE	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
SSE	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.3
S	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7
SSW	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
WSW	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
W	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.5
WNW	.0	.8	.0	2.5	.0	.8	.0	.0	.0	.8	.0	1.7	.0	.0	.0 6.6
NW	.0	.0	.0	.8	.0	.8	.0	2.5	.0	4.1	.0	4.1	.0	.8	.0 13.2
NNW	.0	.8	.0	3.3	.0	.8	.0	3.3	.0	7.4	.0	2.5	.0	1.7	.0 19.8
CALM	.0	6.6													.0 6.6
TOTAL	.0	12.4	.1	28.1	.0	12.4	.0	12.4	.1	21.5	.0	9.1	.0	4.1	.2 100

CEILING-VISIBILITY

WIND GRAPH



MLS MILES CITY, MT

CLASS 5 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MILES CITY, MT

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 24637

NO. OBS.: 100

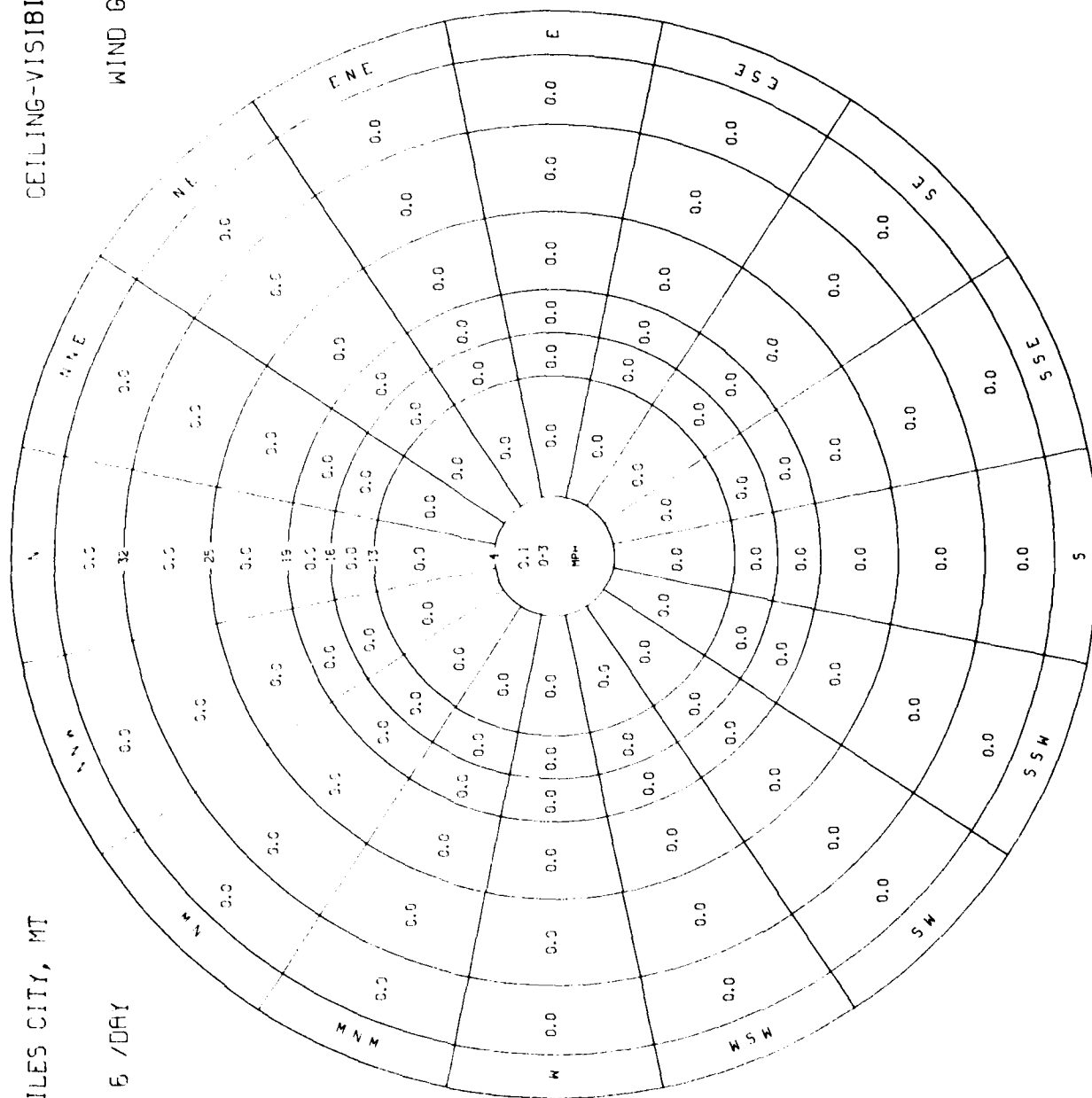
O I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	3.0	.0	.0	.0	2.0	.0	2.0	.0	.0	.0	.0	.0 7.0
NNE	.0	.0	.0	9.0	.0	2.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0 13.0
NNE	.0	.0	.0	6.0	.0	3.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0 10.0
ENE	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.0
E	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
SE	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.0
SSE	.0	1.0	.0	3.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.0
S	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.0
SSW	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.0
SW	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.0
WSW	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.0
W	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.0
WNW	.0	1.0	.0	2.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.0
NW	.0	.0	.0	5.0	.0	1.0	.0	1.0	.0	2.0	.0	1.0	.0	1.0	.0 11.0
NNW	.0	.0	.0	1.0	.0	1.0	.0	1.0	.0	2.0	.0	2.0	.0	1.0	.0 8.0
CALM	.1	23.0													.1 23.0
TOTAL	.1	25.0	.1	46.0	.0	11.0	.0	6.0	.0	7.0	.0	3.0	.0	2.0	.3 100
															9.5

CEILING-VISIBILITY

WIND GRAPH

MLS MILES CITY, MT

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MLS MILES CITY, MT

CLASS 6 / DAY

STATION NUMBER: 24037

NO. OBS.: 116

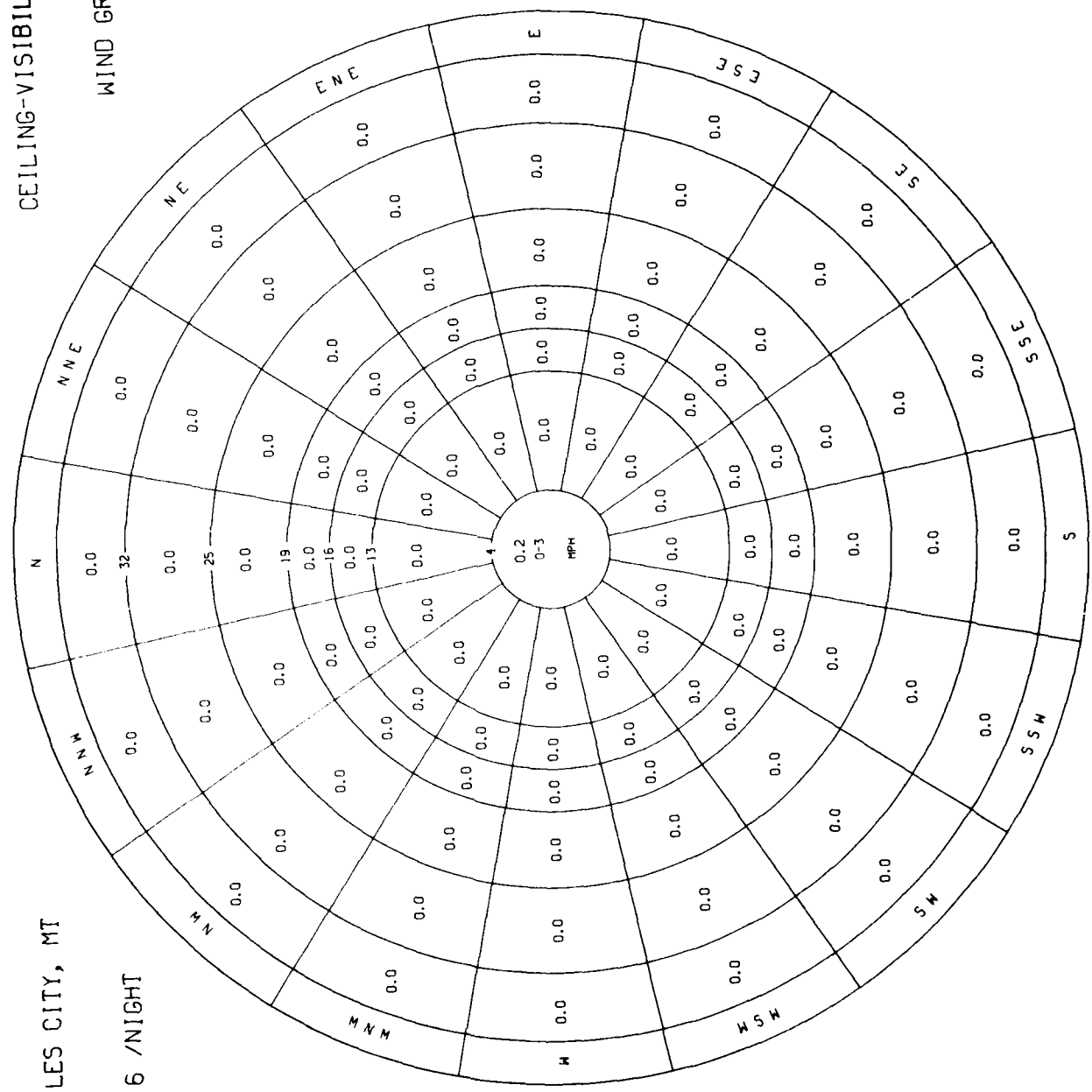
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.9	.0	3.4	.0	.0	.0	.0	.0	1.7	.0	1.7	.0	.0	.0 7.8
NNE	.0	.0	.0	3.4	.0	.9	.0	.0	.0	.0	.0	.9	.0	.0	.0 5.2
NNE	.0	1.7	.0	6.9	.0	1.7	.0	1.7	.0	.9	.0	.0	.0	.0	.0 12.9
ENE	.0	2.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.4
E	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7
ESE	.0	1.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.6
SE	.0	.0	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.2
SSE	.0	1.7	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.0
S	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7
SSW	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7
SW	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0 2.6
WSW	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7
W	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.9	.0 3.4
WNW	.0	.9	.0	.0	.0	.0	.0	.0	.0	.9	.0	1.7	.0	.0	.0 3.4
NW	.0	.0	.0	1.7	.0	.0	.0	.0	.0	1.7	.0	.9	.0	3.4	.0 7.8
NNW	.0	.0	.0	.9	.0	.9	.0	.9	.0	.9	.0	1.7	.0	.9	.0 6.0
CALM	.1	26.7													.1 26.7
TOTAL	.1	39.7	.1	32.8	.0	3.4	.0	2.6	.0	6.0	.0	10.3	.0	5.2	.2 100
															9.6

CEILING-VISIBILITY

WIND GRAPH

MLS MILES CITY, MT

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MLS MILES CITY, MT

CLASS 6 / NIGHT

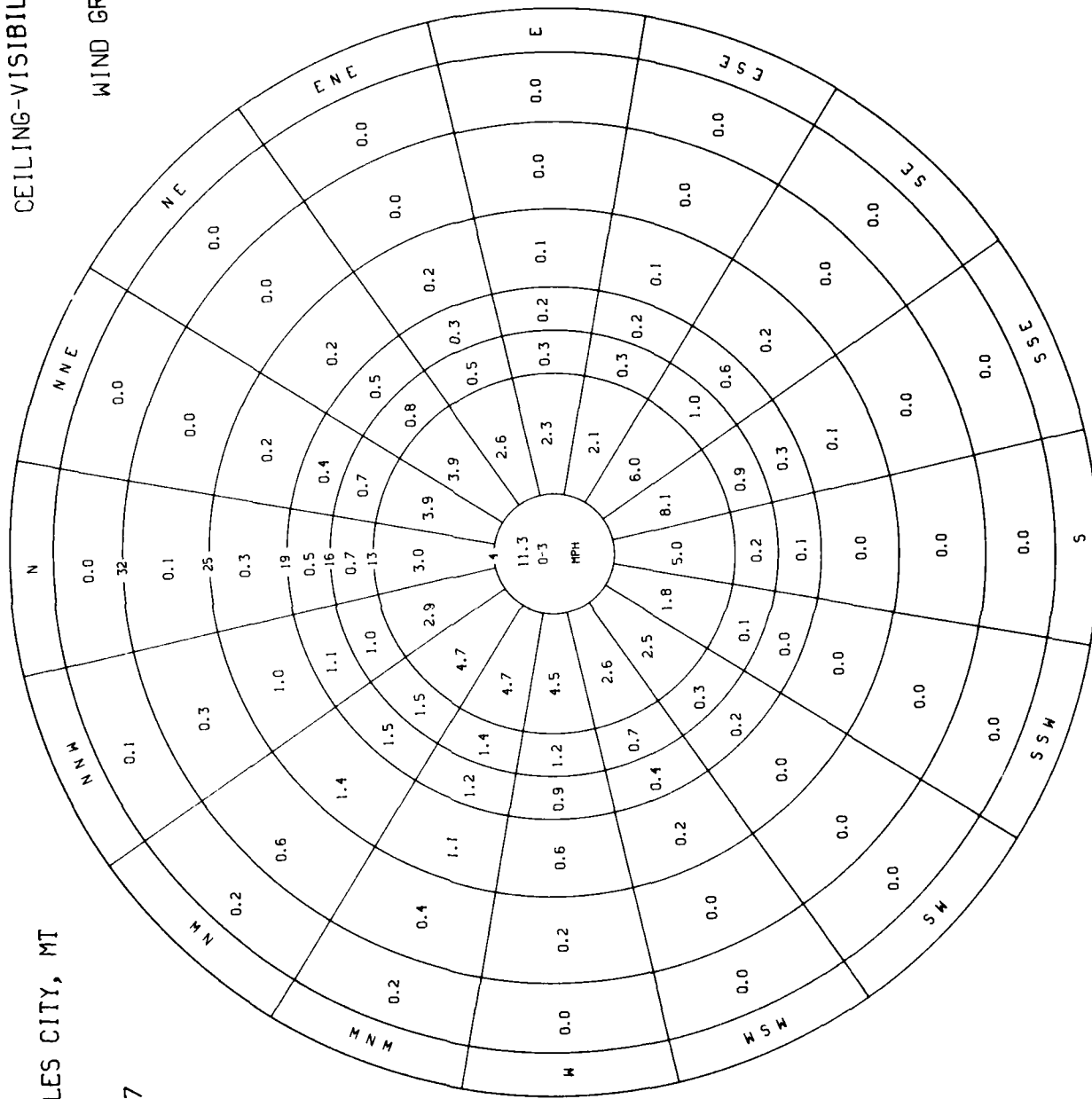
NO. OBS.: 166

STATION NUMBER: 24037

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	2.4	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0 3.6
NNE	.0	3.6	.0	8.4	.0	.6	.0	.6	.0	.0	.0	.6	.0	.0	.1 13.9
NNE	.0	1.8	.0	7.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 9.0
ENE	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
E	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.8
ESE	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
SE	.0	1.8	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.6
SSE	.0	1.2	.0	8.4	.0	1.2	.0	.6	.0	.0	.0	.0	.0	.0	.0 11.4
S	.0	1.2	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.8
SSW	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
SW	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
WSW	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.8
W	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0 3.6
WNW	.0	2.4	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0 6.0
NW	.0	.6	.0	2.4	.0	.0	.0	.0	.0	1.2	.0	1.2	.0	.0	.0 5.4
NNW	.0	.6	.0	2.4	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0 4.2
CALM	.1	21.7													.1 21.7
TOTAL	.2	39.2	.2	51.2	.0	2.4	.0	1.2	.0	3.6	.0	2.4	.0	.0	.4 100

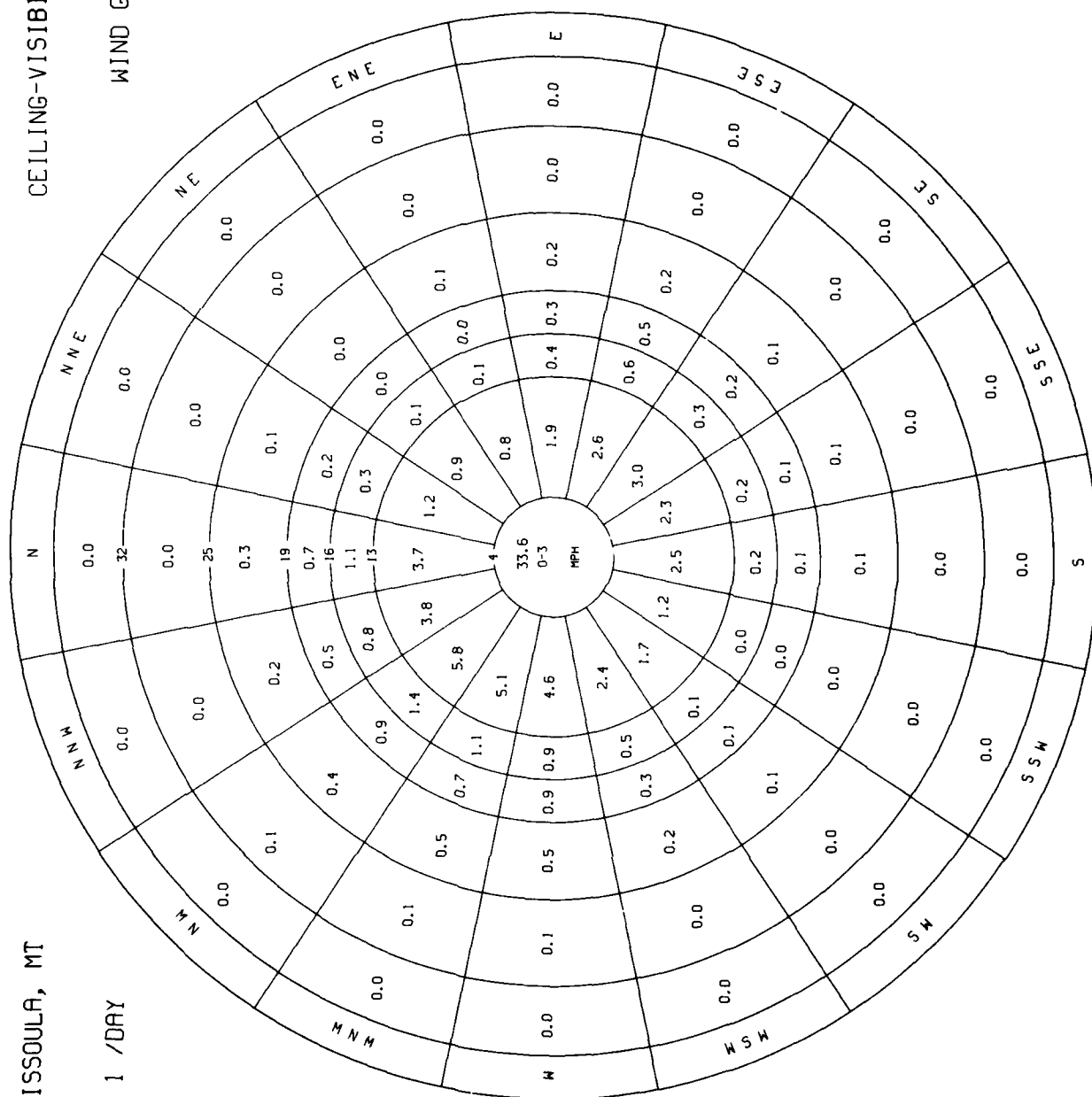
MLS MILES CITY, MT

CLASS 7



CEILING-VISIBILITY
WIND GRAPH

MSO MISSOULA, MT
CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSO MISSOULA, MT

PERIOD: 1948-1978

CLASS 1 / DAY

STATION NUMBER: 24153

NO. OBS.: 48892

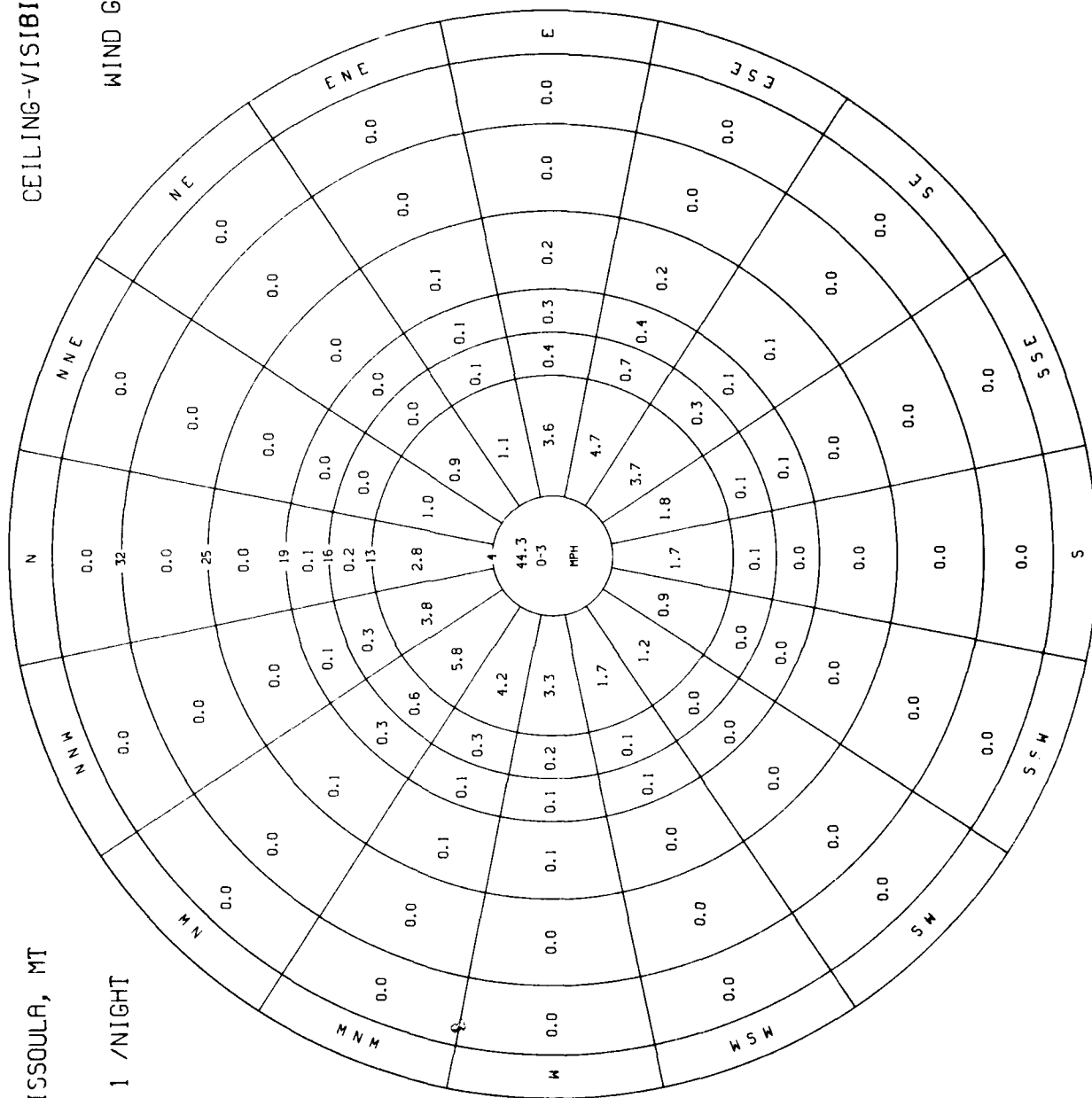
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	1.3	1.4	3.7	3.9	1.1	1.2	.7	.7	.3	.3	.0	.0	.0	.0	7.0	7.5	9.5
NNE	.6	.6	1.2	1.3	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.4	2.6	8.9
NE	1.1	1.2	.9	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.1	2.3	5.1
ENE	.7	.8	.8	.9	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	1.7	1.9	6.3
E	1.3	1.4	1.9	2.1	.4	.4	.3	.3	.2	.2	.0	.0	.0	.0	4.1	4.4	7.8
ESE	1.1	1.2	2.6	2.8	.6	.6	.5	.5	.2	.2	.0	.0	.0	.0	5.1	5.4	8.7
SE	2.1	2.2	3.0	3.2	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	5.7	6.0	6.3
SSE	1.3	1.4	2.3	2.5	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	3.9	4.2	6.1
S	2.3	2.4	2.5	2.7	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	5.1	5.5	5.4
SSW	1.2	1.2	1.2	1.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.5	2.6	5.1
SW	1.9	2.0	1.7	1.8	.1	.2	.1	.1	.1	.1	.0	.0	.0	.0	3.9	4.2	5.6
WSW	1.7	1.8	2.4	2.6	.5	.5	.3	.3	.2	.2	.0	.0	.0	.0	5.1	5.4	7.6
W	2.5	2.7	4.6	4.9	.9	1.0	.9	.9	.5	.5	.1	.1	.0	.0	9.5	10.1	8.5
WNW	2.0	2.1	5.1	5.4	1.1	1.1	.7	.8	.5	.5	.1	.1	.0	.0	9.4	10.0	8.9
NW	1.9	2.0	5.8	6.1	1.4	1.5	.9	.9	.4	.4	.1	.1	.0	.0	10.4	11.1	9.1
NNW	.9	1.0	3.8	4.0	.8	.9	.5	.5	.2	.2	.0	.0	.0	.0	6.2	6.6	9.2
CALM	9.8	10.4													9.8	10.4	
TOTAL	33.6	35.7	43.7	46.4	8.1	8.6	5.4	5.8	2.9	3.1	.4	.5	.1	.1	94.1	100	7.0

CEILING-VISIBILITY

WIND GRAPH

MSO MISSOULA, MT

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSO MISSOULA, MT

PERIOD: 1948-1978

CLASS 1 / NIGHT

STATION NUMBER: 24153

NO. OBS.: 36018

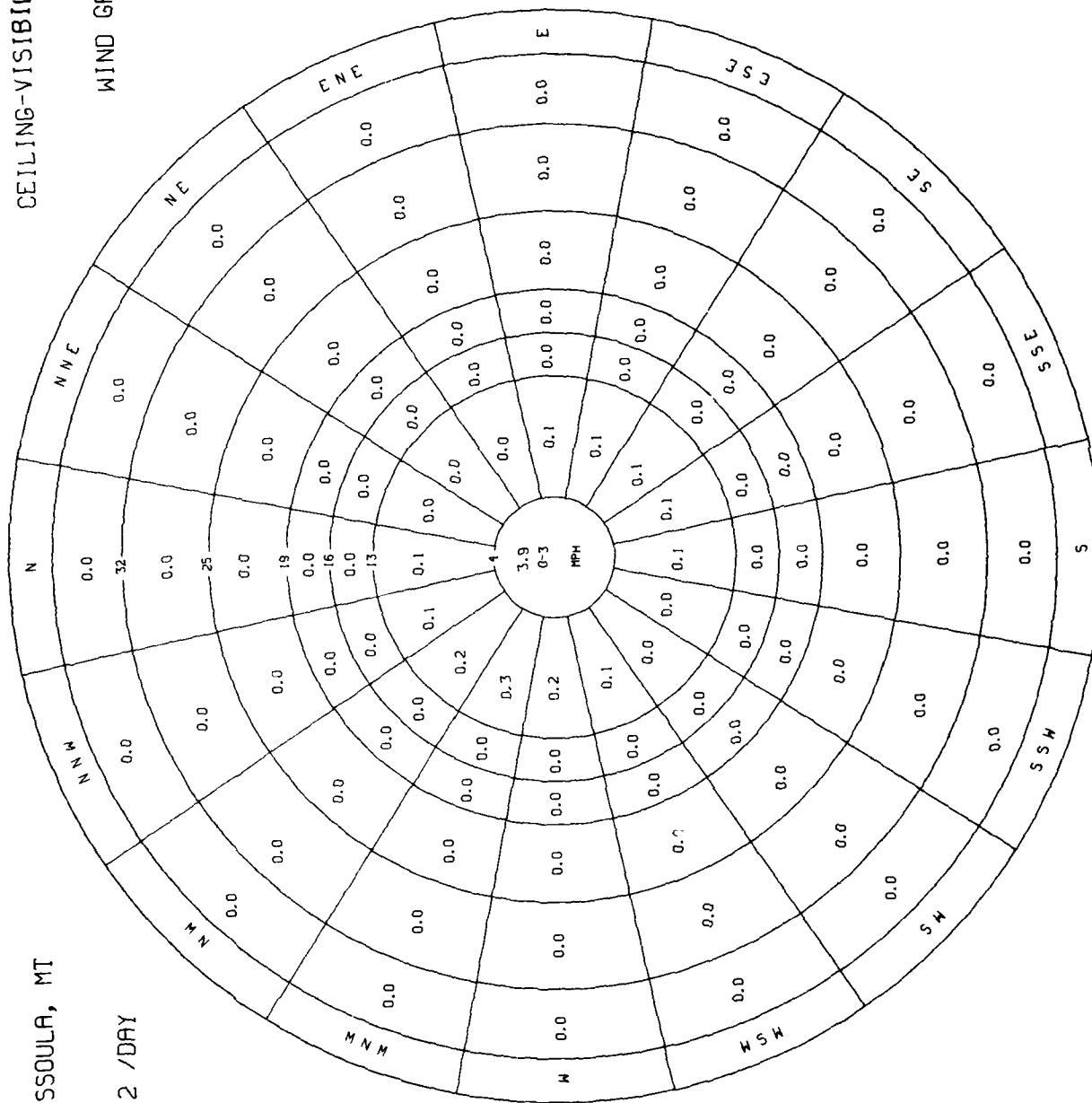
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	2.2	2.3	2.8	3.0	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	5.2 5.6
NNE	1.2	1.2	1.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3 2.5
NE	1.9	2.0	.9	1.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.9 3.1
ENE	1.3	1.4	1.1	1.2	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	2.7 2.8
E	2.6	2.7	3.6	3.9	.4	.5	.3	.4	.2	.2	.0	.0	.0	.0	7.1 7.6
ESE	1.9	2.1	4.7	5.1	.7	.7	.4	.4	.2	.2	.0	.0	.0	.0	7.9 8.5
SE	2.8	3.0	3.7	4.0	.3	.3	.1	.1	.1	.1	.0	.0	.0	.0	6.9 7.4
SSE	1.3	1.3	1.8	1.9	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	3.3 3.5
S	1.6	1.7	1.7	1.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	3.5 3.8
SSW	.9	1.0	.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9 2.0
SW	1.3	1.3	1.2	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5 2.7
WSW	1.2	1.3	1.7	1.8	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	3.1 3.3
W	2.1	2.3	3.3	3.6	.2	.3	.1	.2	.1	.1	.0	.0	.0	.0	5.9 6.4
WNW	2.1	2.2	4.2	4.5	.3	.3	.1	.1	.1	.1	.0	.0	.0	.0	6.8 7.3
NW	2.5	2.7	5.8	6.2	.6	.7	.3	.3	.1	.1	.0	.0	.0	.0	9.3 10.0
NNW	1.4	1.5	3.8	4.1	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	5.7 6.1
CALM	16.2	17.4													16.2 17.4
TOTAL	44.3	47.5	42.4	45.5	3.6	3.8	1.9	2.0	.9	.9	.2	.2	.0	.0	93.3 100

CEILING-VISIBILITY

WIND GRAPH

MSO MISSOULA, MT

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSO MISSOULA, MT

PERIOD: 1948-1978

CLASS 2 / DAY

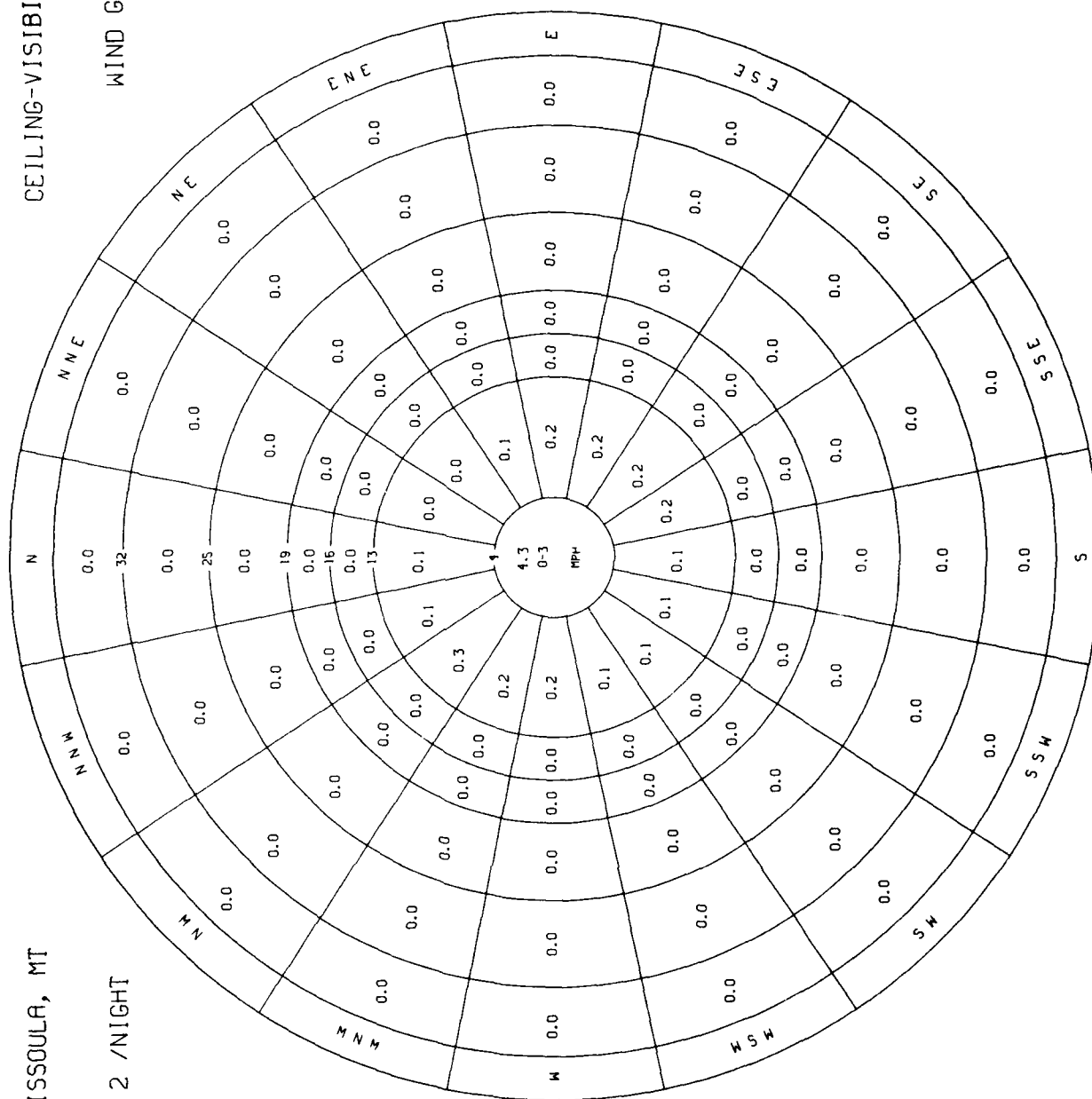
STATION NUMBER: 24153

NO. OBS.: 3051

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED
	0-3			4-12			13-15			16-18			19-24			TOTAL
	A	B		A	B		A	B		A	B		A	B		
N	.1	1.6		.1	1.5		.0	.2		.0	.1		.0	.0		.2 3.5 6.1
NNE	.0	.6		.0	.5		.0	.2		.0	.0		.0	.0		.1 1.3 6.3
N	.1	1.2		.0	.4		.0	.0		.0	.0		.0	.0		.1 1.6 3.7
ENE	.1	1.2		.0	.5		.0	.0		.0	.1		.0	.0		.1 1.9 4.6
E	.1	2.4		.1	1.9		.0	.2		.0	.2		.0	.1		.3 5.0 6.4
ESE	.1	2.3		.1	2.1		.0	.4		.0	.3		.0	.0		.3 5.2 6.6
SE	.2	2.8		.1	2.2		.0	.1		.0	.0		.0	.0		.3 5.1 4.4
SSE	.1	1.7		.1	1.7		.0	.1		.0	.0		.0	.0		.2 2.6 4.8
S	.2	3.5		.1	1.6		.0	.0		.0	.0		.0	.0		.3 5.1 3.5
SSW	.1	1.6		.0	.8		.0	.0		.0	.0		.0	.0		.1 2.3 3.7
SW	.1	2.0		.0	.7		.0	.0		.0	.0		.0	.0		.2 2.7 3.2
WSW	.2	2.6		.1	1.6		.0	.0		.0	.0		.0	.0		.2 4.2 3.9
W	.3	5.2		.2	3.4		.0	.0		.0	.0		.0	.0		.5 8.7 3.9
WNW	.2	4.0		.3	4.7		.0	.0		.0	.1		.0	.0		.5 9.0 5.2
NW	.2	3.2		.2	3.9		.0	.3		.0	.1		.0	.1		.4 7.6 5.9
NNW	.1	2.0		.1	1.5		.0	.2		.0	.1		.0	.0		.2 3.8 5.5
CALM	1.7	29.3														1.7 29.3
TOTAL	3.9	67.1		1.7	28.8		.1	1.8		.1	1.0		.1	1.0		5.9 100 3.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MSO MISSOULA, MT

CLASS 2 / NIGHT

NO. OBS.: 2601

STATION NUMBER: 24153

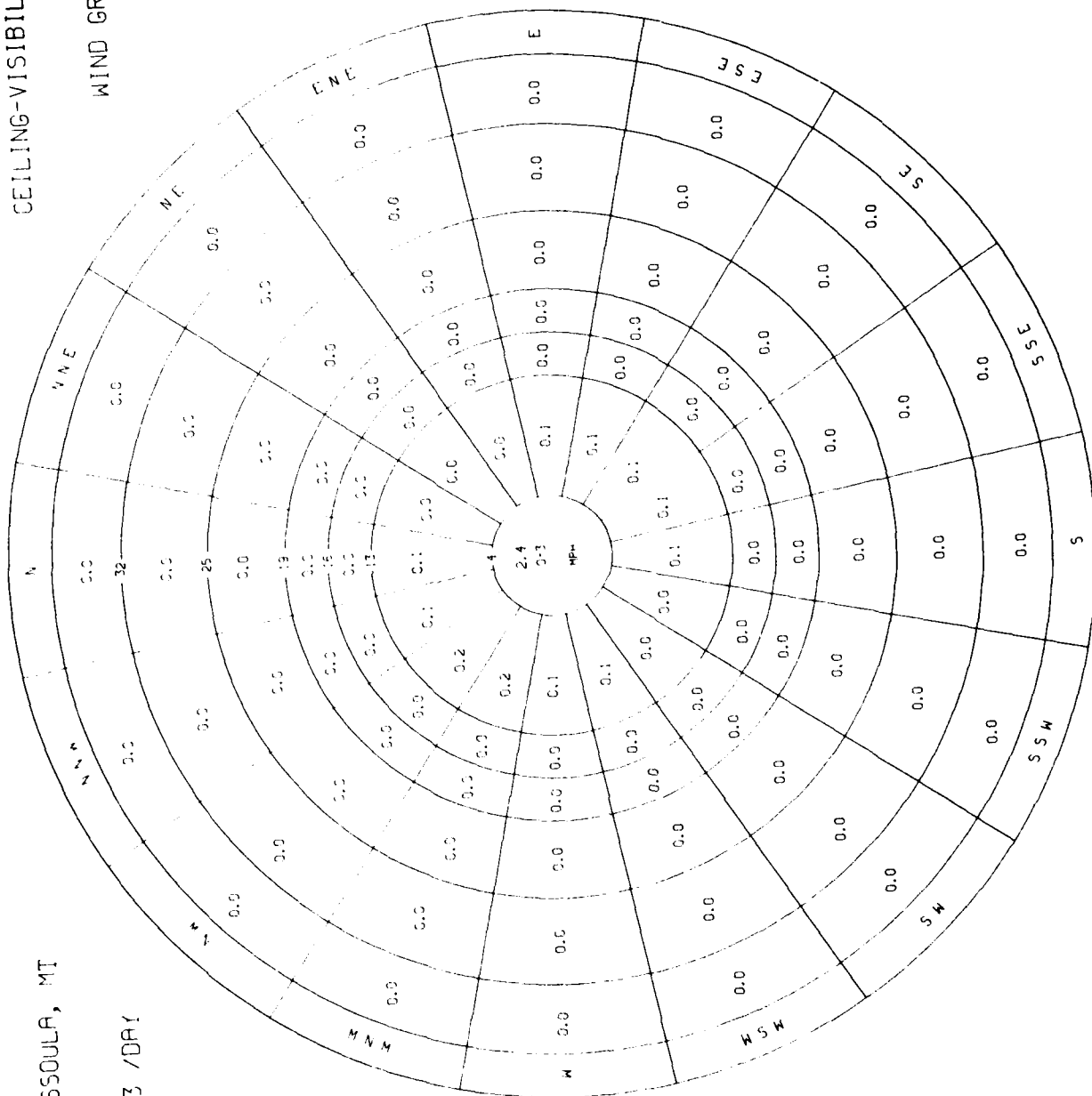
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.1	2.1	.1	1.4	.0	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3	3.8	5.6
NNE	.0	.7	.0	.5	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	1.5	6.5
NE	.2	2.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.5	2.8
ENE	.1	1.4	.1	1.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	2.5	4.6
E	.2	3.0	.2	2.6	.0	.3	.0	.3	.0	.3	.0	.1	.0	.0	.0	.4	6.6	6.5
ESE	.2	2.7	.2	3.3	.0	.2	.0	.2	.0	.2	.0	.2	.0	.0	.0	.5	6.7	6.4
SE	.2	3.2	.2	2.7	.0	.2	.0	.2	.0	.2	.0	.0	.0	.0	.0	.4	6.2	5.0
SSE	.1	2.0	.2	2.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	4.4	4.7
S	.1	2.0	.1	1.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	4.0	4.4
SSW	.1	1.2	.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.0	3.9
SW	.1	1.8	.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.9	3.8
WSW	.1	1.8	.1	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.2	4.1
W	.2	3.0	.2	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	5.8	4.4
WNW	.2	3.2	.2	3.7	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	.5	7.2	5.1
NW	.2	3.1	.3	4.1	.0	.3	.0	.2	.0	.2	.0	.1	.0	.0	.0	.5	8.0	6.3
NNW	.1	1.6	.1	1.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.6	5.2
CALM	2.0	29.1														2.0	29.1	
TOTAL	4.3	64.2	2.1	31.3	.1	1.8	.1	1.1	.1	1.1	.0	.5	.0	.0	.0	6.7	100	3.7

CEILING-VISIBILITY

WIND GRAPH

MSO MISSOULA, MT

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MCG MISSOULA, MT

CLASS 3 / DAY

NO. OBS.: 1990

STATION NUMBER: 24153

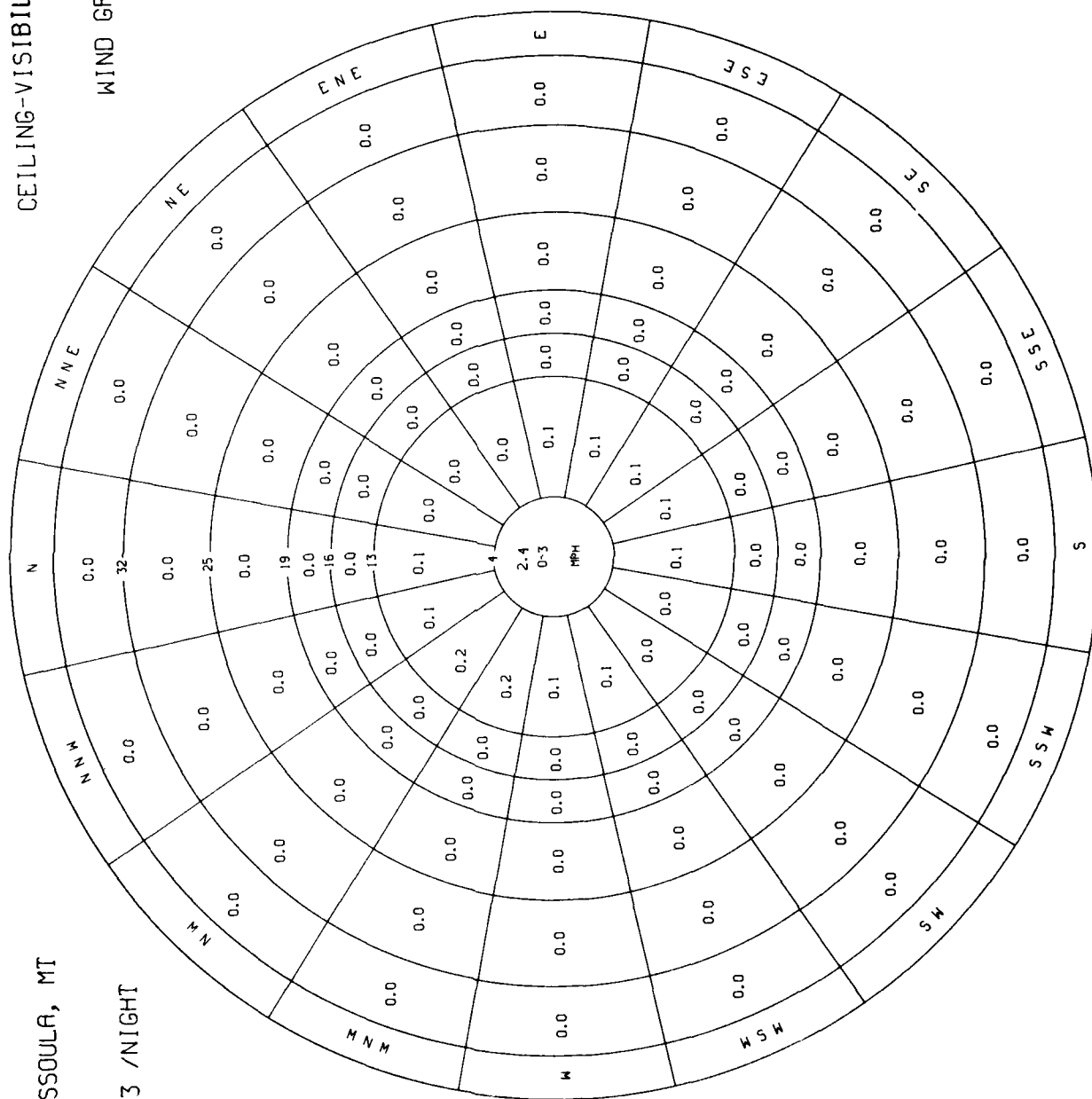
O I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	1.6	.1	1.6	.0	.2	.0	.2	.0	.1	.0	.0	.0	.0	.1	3.6	5.9
NNE	.0	.7	.0	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.5	6.1
NE	.0	.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	3.6
ENE	.0	1.1	.0	.5	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.1	1.7	5.2
E	.1	2.2	.1	2.4	.0	.3	.0	.2	.0	.2	.0	.1	.0	.0	.2	5.2	6.3
ESE	.1	2.2	.1	2.6	.0	.5	.0	.3	.0	.4	.0	.0	.0	.0	.2	5.9	7.1
SE	.1	2.3	.1	2.6	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.2	5.0	4.9
SSE	.1	1.8	.1	1.9	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.8	4.9
S	.1	3.7	.1	2.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	5.7	3.7
SSW	.1	1.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.6	3.8
SW	.1	2.1	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.9	3.4
WSW	.1	2.7	.1	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	4.4	3.9
W	.2	4.9	.1	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	8.8	4.2
WNW	.2	4.3	.2	5.2	.0	.1	.0	.2	.0	.2	.0	.0	.0	.0	.4	9.9	5.2
NW	.1	3.0	.2	4.7	.0	.4	.0	.1	.0	.1	.0	.1	.0	.0	.3	8.4	6.3
NNW	.1	2.1	.1	1.8	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.2	4.1	5.4
CALM	1.0	25.1													1.0	25.1	
TOTAL	2.4	62.2	1.3	33.4	.1	2.3	.0	1.0	.0	1.0	.0	.1	.0	.1	3.8	100	3.8

CEILING-VISIBILITY

WIND GRAPH

M50 MISSOULA, MT

CLASS 3 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSO MISSOULA, MT

PERIOD: 1948-1978

CLASS 3 / NIGHT

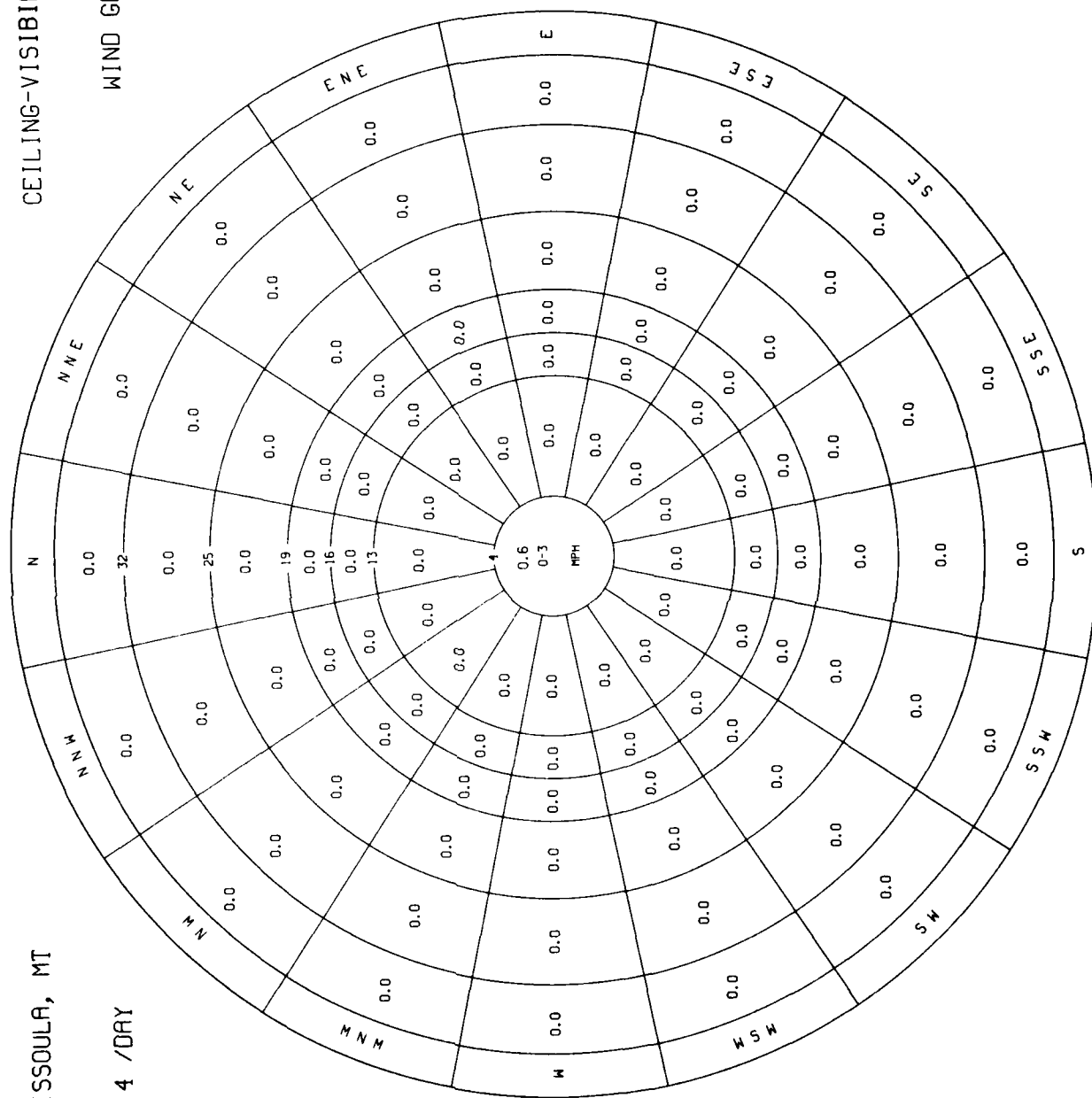
STATION NUMBER: 24153

NO. OBS.: 1562

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D		
N	.1	1.8	.1	1.7	.0	.2	.0	.1	.0	.2	.0	.1	.0	.0	.2	4.0	6.7
NNE	.0	.6	.0	.6	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.1	1.5	7.6
NE	.1	2.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.3	2.8
ENE	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	2.4	5.1
E	.1	2.2	.1	3.1	.0	.5	.0	.3	.0	.3	.0	.1	.0	.0	.3	6.4	7.3
ESE	.1	2.4	.1	3.5	.0	.2	.0	.2	.0	.2	.0	.2	.0	.0	.3	6.7	6.8
SE	.1	3.2	.1	2.8	.0	.1	.0	.2	.0	.0	.0	.1	.0	.0	.3	6.3	5.2
SSE	.1	1.8	.1	2.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	4.9	5.1
S	.1	2.4	.1	2.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	4.7	4.6
SSW	.0	1.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.9	3.9
SW	.1	1.6	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.6	3.8
WSW	.1	1.8	.1	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.4	4.2
W	.1	2.9	.1	2.9	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	5.9	4.4
WNW	.1	3.2	.2	4.2	.0	.2	.0	.1	.0	.2	.0	.0	.0	.0	.3	7.9	5.5
NW	.1	3.3	.2	4.4	.0	.3	.0	.1	.0	.4	.0	.1	.0	.0	.3	8.6	6.3
NNW	.1	1.5	.1	2.7	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	4.4	6.0
CALM	1.1	26.2			.1	1.9	.0	1.2	.1	1.4	.0	.6	.0	.0	1.1	26.2	
TOTAL	2.4	59.2	1.4	35.8	.1	1.9	.0	1.2	.1	1.4	.0	.6	.0	.0	4.0	100	4.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MSO MISSOULA, MT

CLASS 4 / DAY

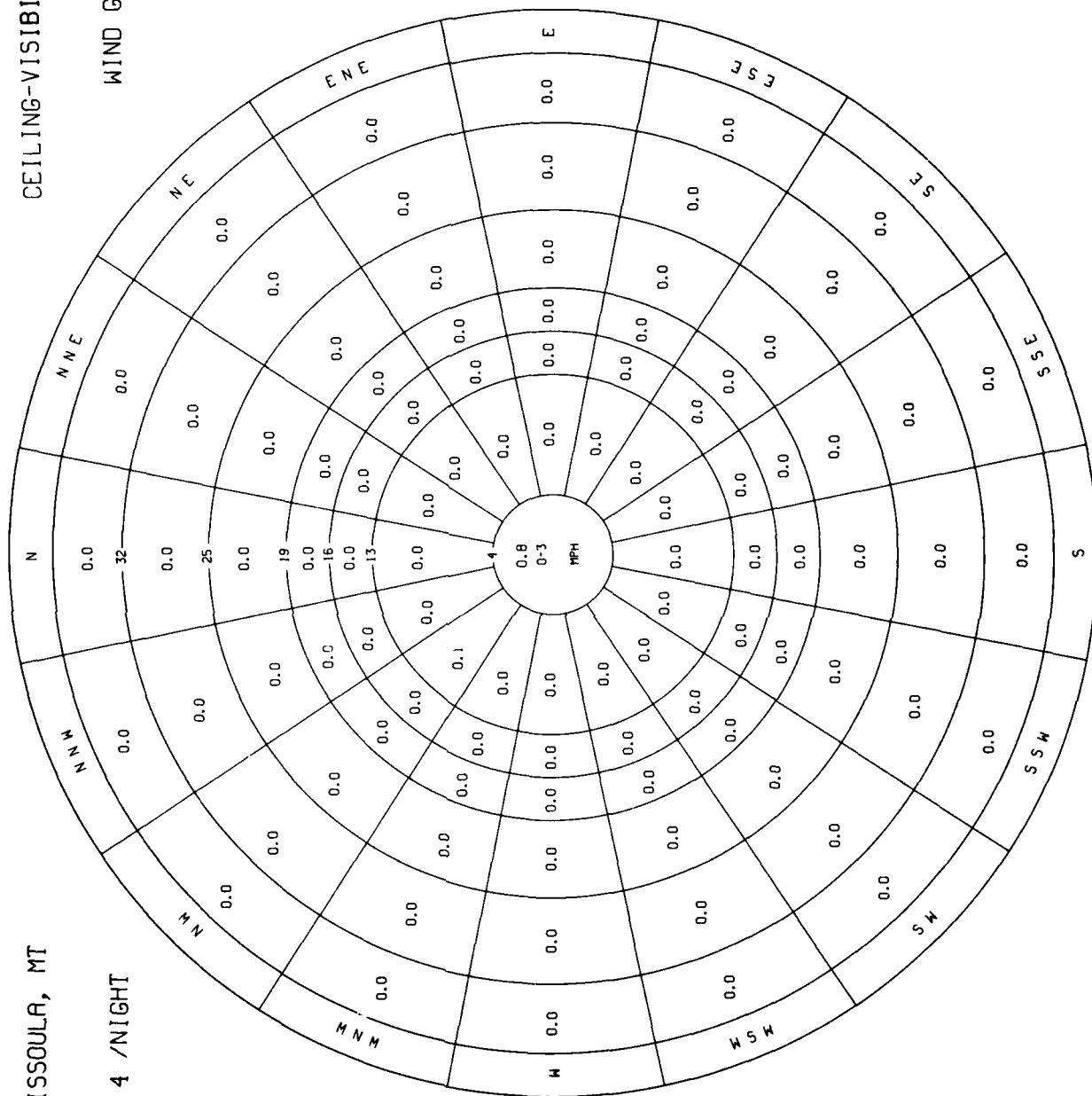
NO. OBS.: 430

STATION NUMBER: 24153

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.5	.0	1.6	.0	.2	.0	.0	.0	.7	.0	.2	.0	.0	.0	3.3	10.9
NNE	.0	.5	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	6.8
NE	.0	1.6	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	4.2
ENE	.0	1.2	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	3.7
E	.0	1.9	.0	.9	.0	.0	.0	.2	.0	.9	.0	.5	.0	.0	.0	4.4	10.5
ESE	.0	1.9	.0	.5	.0	.7	.0	.5	.0	.0	.0	.0	.0	.0	.0	3.5	7.2
SE	.0	3.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	3.7
SSE	.0	1.9	.0	2.6	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	4.9	5.8
S	.0	2.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	3.3
SSW	.0	1.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	4.0
SW	.0	2.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	2.9
WSW	.0	2.3	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	4.0
W	.1	6.3	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.3	3.5
WNW	.0	2.3	.0	3.5	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.1	6.0	6.0
NW	.0	3.0	.0	3.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.5	5.6
NNW	.0	1.4	.0	1.9	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	4.0	7.5
CALM	.3	34.0													.3	34.0	
TOTAL	.6	68.1	.2	26.3	.0	1.4	.0	1.6	.0	1.6	.0	.9	.0	.0	.8	100	3.6

CEILING-VISIBILITY

WIND GRAPH



MSO MISSOULA, MT

CLASS 4 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSO MISSOULA, MT

PERIOD: 1948-1978

CLASS 4 / NIGHT

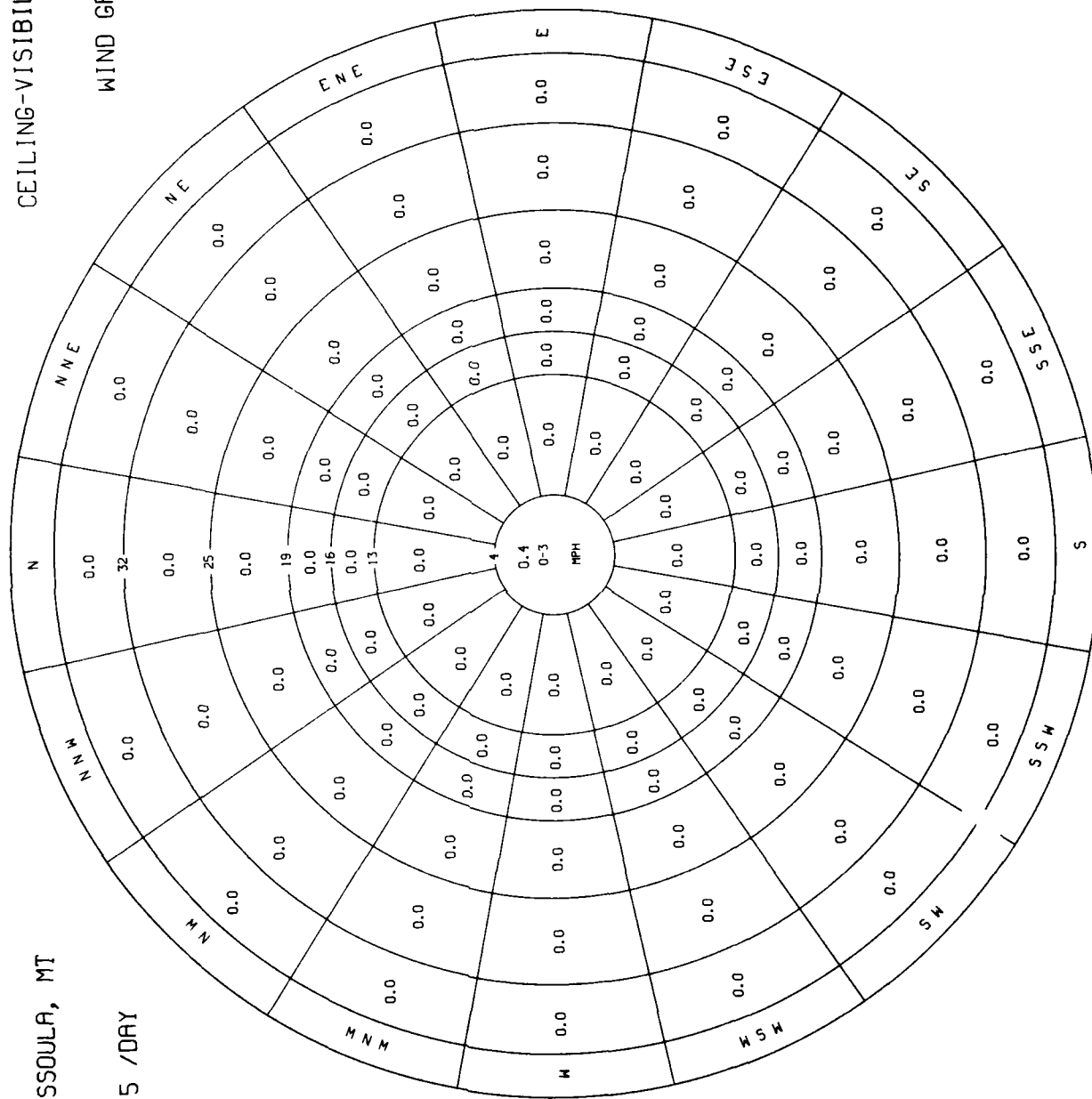
STATION NUMBER: 24153

NO. OBS.: 457

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D		
N	.0	2.2	.0	1.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	4.8
NNE	.0	.9	.0	.2	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	1.5	6.3
NE	.0	2.6	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	2.9
ENE	.0	2.0	.0	1.1	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	3.3	4.6
E	.0	3.5	.0	2.6	.0	.2	.0	.7	.0	.2	.0	.2	.0	.0	.1	7.4	6.9
ESE	.0	3.5	.0	3.7	.0	.4	.0	.2	.0	.4	.0	.0	.0	.0	.1	8.3	6.2
SE	.0	1.8	.0	2.4	.0	.4	.0	.2	.0	.2	.0	.0	.0	.0	.1	5.0	6.4
SSE	.0	2.6	.0	1.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.6	4.2
S	.0	1.3	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	4.3
SSW	.0	1.5	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	4.3
SW	.0	1.5	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	3.9
WSW	.0	1.8	.0	.9	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.8	4.5
W	.0	2.6	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.1	4.4	4.9
WNW	.0	3.7	.0	3.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.7	4.9
NW	.0	2.2	.1	5.7	.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	.1	8.8	6.6
NNW	.0	1.5	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	3.3
CALM	.3	28.4													.3	28.4	
TOTAL	.8	63.7	.4	29.8	.0	3.3	.0	1.8	.0	1.1	.0	.4	.0	.0	1.2	100	3.8

MSO MISSOULA, MT

CLASS 5 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSO MISSOULA, MT

PERIOD: 1948-1978

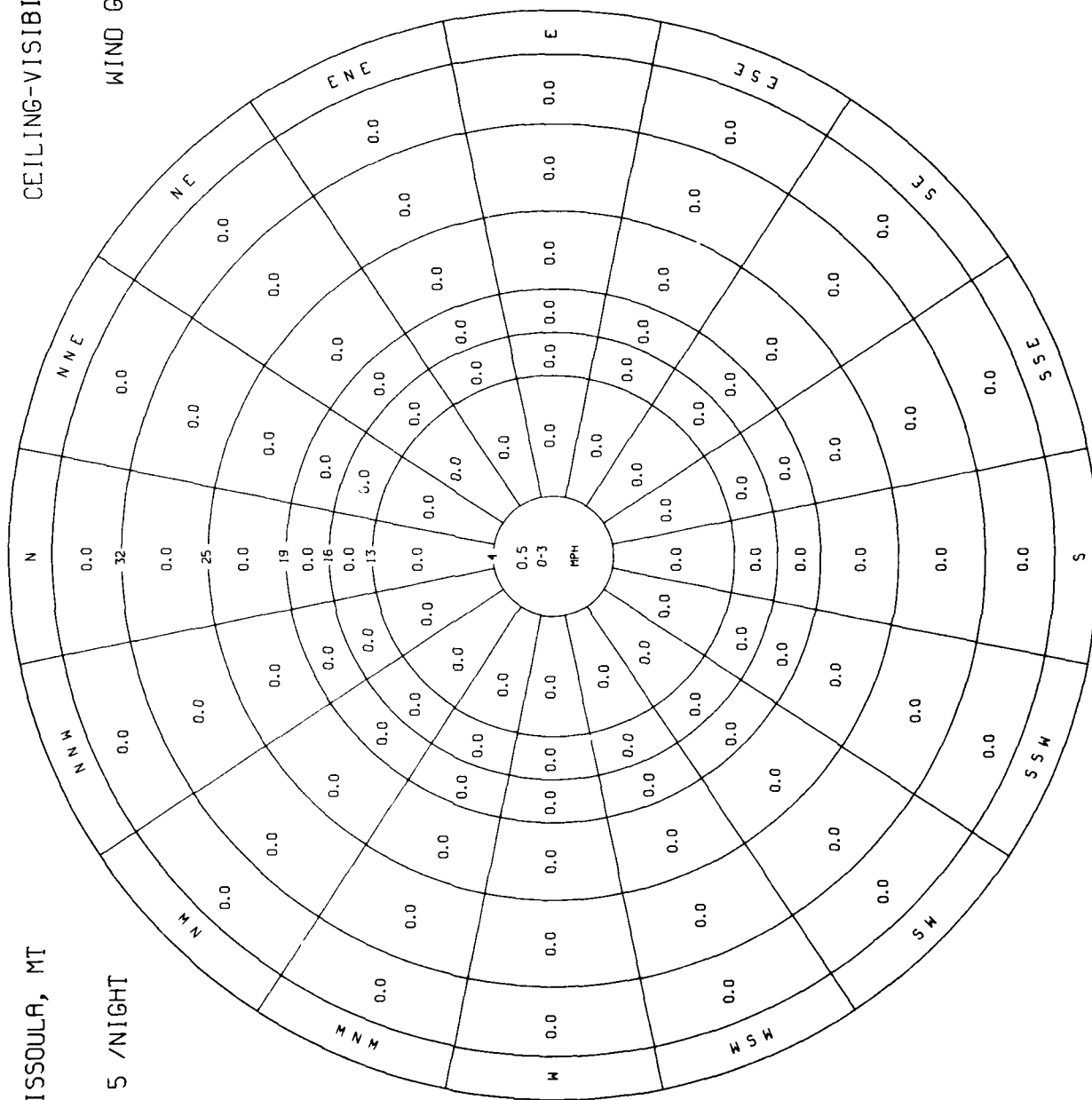
CLASS 5 / DAY

STATION NUMBER: 24153

NO. OBS.: 262

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	1.5	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	4.1
NNE	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	2.5
NE	.0	1.1	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	1.9	5.8
ENE	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	2.7
E	.0	2.3	.0	1.1	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	4.2	5.9
ESE	.0	3.1	.0	1.9	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	5.3	5.4
SE	.0	3.4	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	3.2
SSE	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	3.8
S	.0	3.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	2.9
SSW	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	2.7
SW	.0	1.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	3.0
WSW	.0	3.4	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	4.1
W	.0	5.7	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	3.4
WNW	.0	4.6	.0	6.1	.0	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.1	11.5	5.8
NW	.0	3.8	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	5.3	5.1
NNW	.0	1.1	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	6.2
CALM	.2	35.1														.2	35.1	
TOTAL	.4	75.6	.1	21.4	.0	.8	.0	1.1	.0	.4	.0	.8	.0	.0	.0	.5	100	2.9

CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSO MISSOULA, MT

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 24153

NO. OBS.: 256

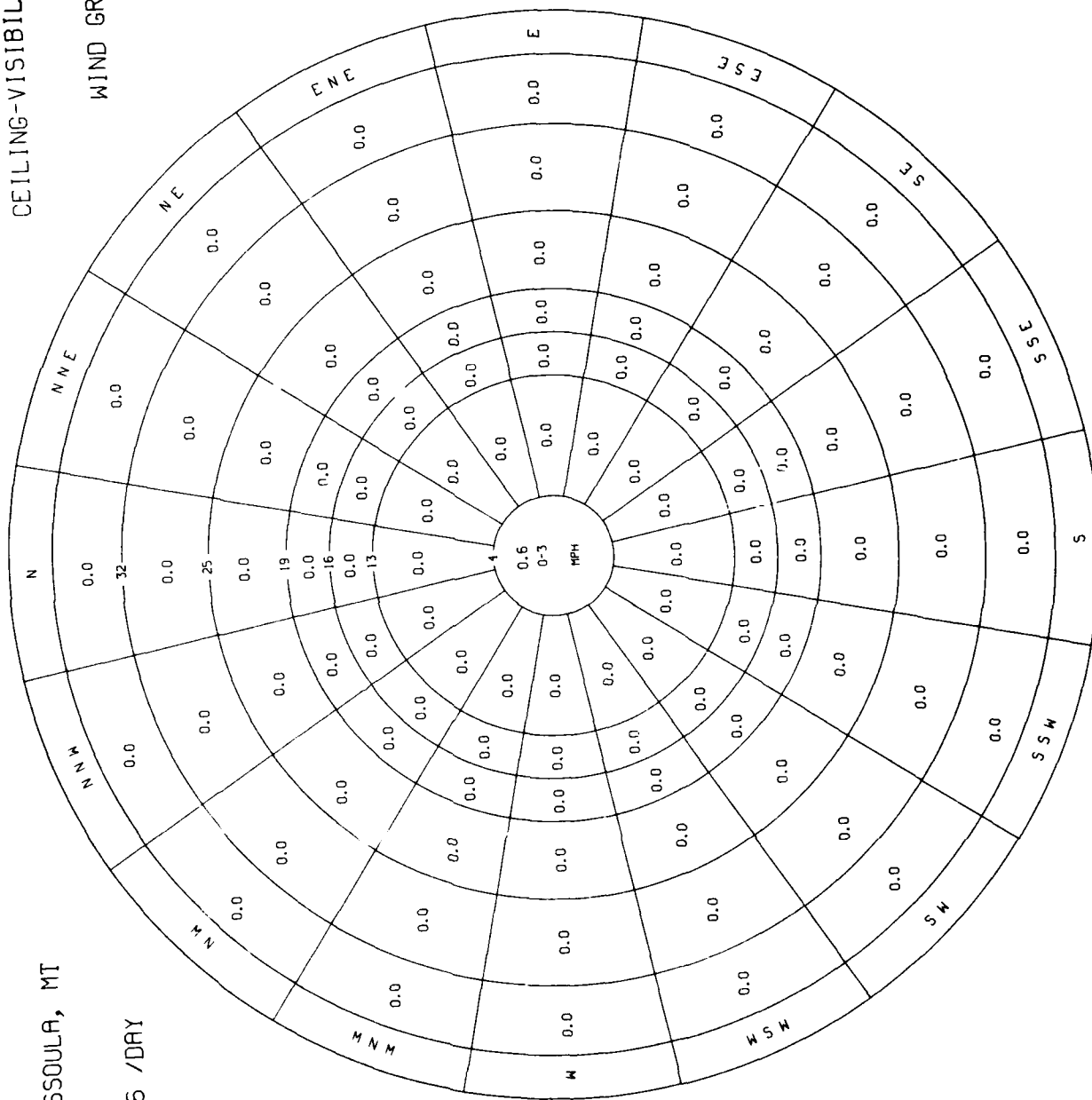
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	2.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	4.2
NNE	.0	1.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	3.2
NE	.0	2.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	2.7
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	3.9	.0	.8	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	5.1	3.8
ESE	.0	2.0	.0	1.6	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	4.3	7.7
SE	.0	4.7	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.8	3.4
SSE	.0	2.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	3.0
S	.0	2.3	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	3.8
SSW	.0	2.7	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	3.0
SW	.0	2.7	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	3.6
WSW	.0	2.7	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	3.4
W	.0	5.5	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.4	3.9
WNW	.0	3.1	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	4.1
NW	.0	2.0	.0	1.6	.0	.4	.0	.4	.0	.0	.0	.8	.0	.0	.0	.0	5.1	9.5
NNW	.0	2.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	3.3
CALM	.2	35.9														.2	35.9	
TOTAL	.5	76.6	.1	20.7	.0	.4	.0	.8	.0	.4	.0	1.2	.0	.0	.0	.7	100	2.8

CEILING-VISIBILITY

WIND GRAPH

MSO MISSOULA, MT

CLASS 6 /DAY



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NATIONAL CLIMATIC CENTER ASHEVILLE NC

F/G 4/2

WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS. VOLUME V--ETC(U)

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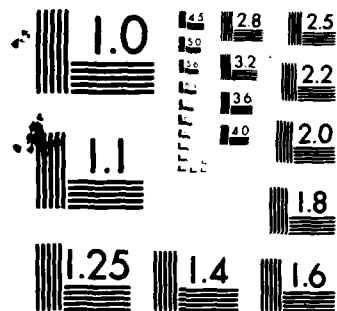
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NATIONAL BUREAU OF STANDARDS 1963-A

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSD MISSOULA, MT

PERIOD: 1948-1978

CLASS 6 / DAY

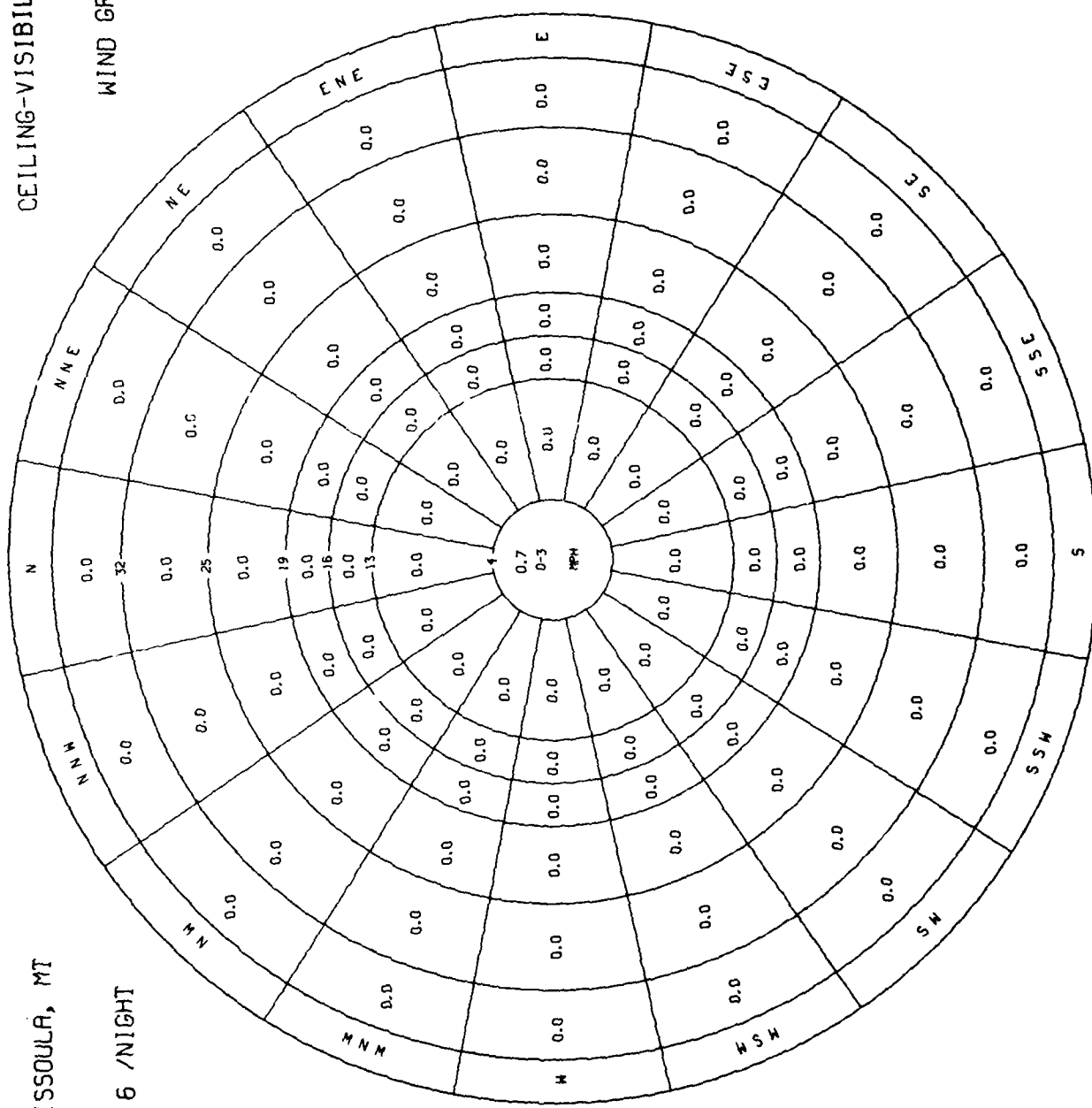
STATION NUMBER: 24153

NO. OBS.: 369

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	R	B	C		D
N	.0	2.7	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	2.8
NNE	.0	.3	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.8	10.0
NE	.0	2.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	2.3
ENE	.0	1.5	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	1.9	4.7
E	.0	3.8	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	3.0
ESE	.0	2.7	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	3.2
SE	.0	5.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	3.2
SSE	.0	1.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	2.6
S	.0	3.8	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	2.7
SSW	.0	1.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	3.4
SW	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	2.2
WSW	.0	1.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	3.2
W	.0	5.1	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.3	3.4
WNW	.0	4.1	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	3.5
NW	.0	4.1	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	6.5	4.6
NNW	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	2.7
CALM	.3	42.3													.3	42.3	
TOTAL	.6	86.4	.1	12.7	.0	.0	.0	.3	.0	.3	.0	.3	.0	.0	.7	100	2.0

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSO MISSOULA, MT

PERIOD: 1948-1978

CLASS 6 / NIGHT

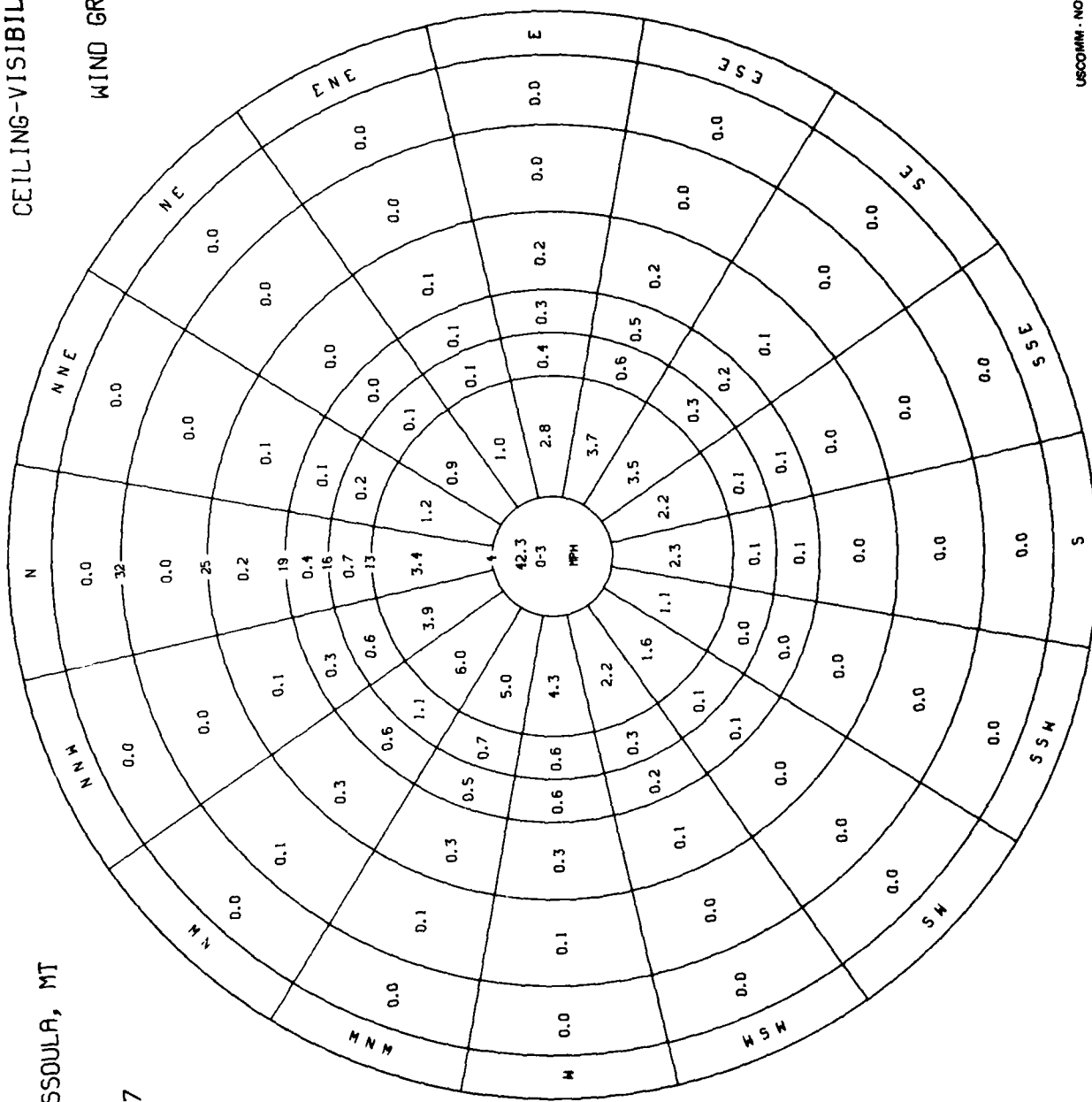
STATION NUMBER: 24153

NO. OBS.: 326

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
															C		D
N	.0	3.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	2.6
NNE	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	4.0
N	.0	2.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	2.6
ENE	.0	2.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	3.2
E	.0	5.2	.0	1.8	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.1	7.4	4.1
ESE	.0	3.4	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.1	3.7
SE	.0	4.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.1	4.0
SSE	.0	2.1	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	4.0
S	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	3.2
SSH	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	3.0
SW	.0	2.5	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	3.6
WSW	.0	1.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	3.2
W	.0	2.1	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	3.7
WNW	.0	2.5	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	4.1
NW	.0	4.3	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.7	3.5
NNW	.0	2.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	2.7
CALM	.3	38.7													.3	38.7	
TOTAL	.7	79.1	.2	20.6	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.8	100	2.2

CEILING-VISIBILITY WIND GRAPH

MSO MISSOULA, MT
CLASS 7



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